

July 29, 2022

Ms. Beverly Tipton
Solid Waste Management Program
Environmental Protection Division
4244 International Parkway, Suite 104
Atlanta, Georgia 30354

Subject: Georgia Power Company
Plant McDonough Ash Ponds 2, 3, and 4 Permit #APL0338
2022 Annual Groundwater Monitoring and Corrective Action Report

Dear Ms. Tipton:

Please find enclosed the 2022 Annual Groundwater Monitoring and Corrective Action Report for Plant McDonough Combined Multiunit Ash Ponds 2, 3/4.

If you have any questions about this submittal, please contact me at 404-217-3967.

Sincerely,



Ben Hodges, P.G.
Geologist, Georgia Power Environmental Affairs



REPORT

2022 Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4

Submitted to:



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Submitted by:

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July 29, 2022



Certification

This *2022 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4* 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] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 (6)(a-c) by a qualified groundwater scientist or engineer with Golder Associates USA Inc.

I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g) and that this *2022 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4* has been prepared to meet the requirements of 40 CFR § 257.90(e).

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Executive Summary

This summary of the *2022 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2021 through June 2022 at Georgia Power Company's (Georgia Power) Plant McDonough-Atkinson Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4). This summary was prepared by Golder Associates USA Inc. (Golder) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) 257 Subpart D]. As required in 40 CFR § 257.90(e), this annual report describes the status of the groundwater monitoring program, summarizes key actions completed, and presents projected key activities for the upcoming year for AP-2 and 3/4. The other CCR unit (AP-1) on-site at Plant McDonough-Atkinson (Plant McDonough) is reported separately.

Plant McDonough, formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. Located approximately 7 miles northwest of Atlanta in southeast Cobb County (5551 South Cobb Drive SE, Atlanta, Georgia 30339), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River.

Groundwater at AP-2 and 3/4 is monitored using a comprehensive well network comprised of upgradient and downgradient wells that meet federal and state monitoring requirements. Routine sampling and reporting for AP-2 and 3/4 began after the background groundwater conditions were established between 2016 and 2018.

Based on groundwater quality, an assessment monitoring program and assessment of corrective measures were established on November 13, 2019, and June 9, 2020, respectively. During the 2022 annual reporting period, the Site remained in assessment monitoring as corrective measures are evaluated.

Groundwater elevation measurements were recorded from the Site monitoring wells 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 units remains sufficient to monitor groundwater downgradient of the units.



Plant McDonough

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

2022 Annual Groundwater Monitoring Activities

There is no change to the AP-2 and 3/4 certified detection monitoring network during this reporting period. Groundwater monitoring semi-annual sampling events for AP-2 and 3/4 were conducted in September 2021 and January 2022. Groundwater samples were collected and analyzed for Appendix III² and Appendix IV³ required monitoring parameters.

Analytical data from the September 2021 and the January 2022 monitoring events have been statistically analyzed in accordance with the Site's certified statistical analysis method. For the September 2021 and January 2022 semi-annual monitoring event, statistical analyses indicate statistically significant increases (SSIs) for Appendix III constituents above the statistical limits and statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards (GWPS) as summarized below.

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 concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

Appendix III Constituent	September 2021 ^[1]
Boron	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
Calcium	DGWC-2, DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Fluoride	DGWC-9, DGWC-10, DGWC-48
pH	DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
TDS	DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	September 2021 ^[2]
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93
Lithium	DGWC-47, DGWC-48, B-104D ^[3]
Radium 226 + 228	B-104D
Selenium	DGWC-9

² Appendix III: boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids

³ Appendix IV: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, combined radium (226 + 228), selenium, and thallium.

Appendix III Constituent	January 2022 ^[1]
Boron	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
Calcium	DGWC-2, DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-13, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Fluoride	DGWC-9, DGWC-10, DGWC 20, DGWC-47, DGWC-48
pH	DGWC-5, DGWC-9, DGWC-10, DGWC-13, DGWC-19, DGWC-20, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
TDS	DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	January 2022 ^[2]
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D
Lithium	DGWC-47, DGWC-48
Selenium ^[3]	DGWC-9
Radium 226 + 228	B-104D, B-109D

Notes:

- [1] An SSI is determined by an exceedance of the calculated prediction limit.
- [2] An SSL is determined by comparing the confidence interval to the GWPS. Until February 22, 2022, GA EPD defined the GWPS as: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL. Under current EPD rules, the GWPS is: (i) the MCL or RSL, or (iii) background levels for constituents where the background level is higher than the MCL or RSL.
- [3] The January 2022 statistical results do not identify Selenium at DGWC-9 as an SSL. However, since this constituent previously exceeded the GWPS, McDonough will continue to evaluate the presence of selenium in DGWC-9 until such time that the entire confidence interval is below the GWPS, and GA EPD concurs with no further action.

The Appendix IV SSLs are horizontally delineated in Site assessment wells to below GWPS for arsenic, beryllium, lithium, and selenium. Cobalt is horizontally delineated through on-site monitoring wells and surface water sampling downgradient. Surface water samples collected in September 2021 and February 2022 show non-detect levels for arsenic and cobalt, which are consistent with previous observations. Because radium concentrations at B-104D and B-109D are recent SSLs, Georgia Power will review the SSLs of radium and follow the guidance and timelines specified in § 257.95(g). An ASD for radium was submitted on April 29, 2022 and is currently under review. Based on review of the Appendix III and Appendix IV results noted above, the Site will remain in Assessment Monitoring. Georgia Power will continue routine groundwater monitoring and evaluation of corrective action alternatives at the Site. Reports will be posted to the website and provided to the Georgia (GA) Environmental Protection Division (EPD) semi-annually.

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia (GA) Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, this *2022 Annual Groundwater Monitoring and Corrective Action Report* was prepared to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power)'s Plant McDonough-Atkinson Ash Pond 2 (AP-2), Ash Pond 3 (AP-3), and Ash Pond 4 (AP-4) (aka AP-2 and 3/4) and satisfies the requirements of § 257.90(e). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the US EPA CCR rule (40 CFR 257 Subpart D). For ease of reference, the US EPA CCR rules are cited within this report.

This annual report documents groundwater monitoring activities conducted from both semi-annual monitoring events, conducted during September 2021 and January 2022 at AP-2 and 3/4. Activities completed at Plant McDonough's Ash Pond 1 are reported under separate cover.

1.1 Site Description and Background

Plant McDonough-Atkinson (Plant McDonough, Site), formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. Located approximately 7 miles northwest of Atlanta in southeast Cobb County (5551 South Cobb Dr SE, Atlanta, GA 30339), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River. A site location map is included as Figure 1.

Four CCR surface impoundments are located on-site: Ash Pond 1 (AP-1), Ash Pond 2 (AP-2), Ash Pond 3 (AP-3) and Ash Pond 4 (AP-4). AP-3 and AP-4 have historically operated together and are being closed as a Combined Unit AP-2 and 3/4. AP-1 is reported separately. A notification of intent to initiate closure of the inactive CCR surface impoundment was certified on December 7, 2015, for AP-2 and December 8, 2015, for AP-3 and AP-4 and posted to Georgia Power's website. A permit application was submitted to GA EPD in November 2018 and is currently pending approval. CCR removal and consolidation at Plant McDonough AP-234 has been completed and final capping and closure is underway. Areas of certified CCR removal are shown on Figure 2.

Groundwater monitoring and reporting for AP-2 and 3/4 are being performed to meet the alternate schedule in § 257.100(e)(5) of the revised US EPA CCR rule (August 5, 2016) as a combined multi-unit AP-2 and 3/4. CCR impoundments AP-2 and 3/4 are located adjacent to each other and there is semi-radial flow away from these CCR units. For these reasons, a combined multi-unit monitoring network for AP-2 and 3/4 is established as allowed in the CCR Rule § 257.91.

1.2 Regional Geology and Hydrogeologic Setting

The following section and subsections include a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the Site as presented in the *Hydrogeologic Assessment Report* (Golder, 2022a).

The Site is located in the Piedmont/Blue Ridge geologic province, which contains some of the oldest rock formations in the southeastern United States. These late Precambrian to late Paleozoic rocks have undergone repeated cycles of igneous intrusions and extrusions, metamorphism, folding, faulting, shearing, and silicification. Rock outcrops near the site consist of biotite gneiss, porphyritic gneiss, mica schist, and quartzite.

Residual soils, primarily clayey/sandy silt, sandy silt with clay, and silty sand, occur as a variably thick blanket overlying bedrock across most of the Site. These residual saprolitic soils along with saprolitic transitionally or partially weathered rock, collectively the overburden, range between approximately 9 to 61 feet in thickness across the Site, with an average thickness of approximately 38 feet. Saprolitic rock is considered to be transitionally weathered rock (TWR) or partially weathered rock (PWR). Where TWR is a qualitative description based on visual observations, PWR is defined by Standard Penetration Test (SPT) blow counts that exceed 50 blows/six inches.

A regional, unconfined surficial aquifer system is present at the Site, existing within the overburden and weathered and fractured upper bedrock (e.g., approximately the first 30 feet), depending on topographic location. Recharge primarily occurs through precipitation and subsequent infiltration. Generally, groundwater flow occurs through intergranular pore spaces in the overburden and is controlled by topography and top of rock variations. However, a relatively higher transmissive zone is interpreted to occur at the base of the overburden, at the interface of weathered bedrock and competent bedrock and is believed to be the primary groundwater flow path. Groundwater in the overburden has an average horizontal hydraulic conductivity of 10^{-4} centimeters per second (cm/s) and is interpreted to flow south-southeast.

A limited and localized bedrock aquifer system also occurs beneath the Site. The upper bedrock is fractured and weathered, connected hydraulically with the overburden groundwater, and is considered part of the uppermost aquifer. The overlying silt/clay-rich overburden may act to retard recharge into the bedrock aquifer system. However, deeper bedrock (i.e., approximately greater than 30 feet into the bedrock) is unweathered with few discontinuities (e.g., fractures) available to store groundwater.

1.3 Groundwater Monitoring Network

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at AP-2 and 3/4 to monitor groundwater passing the waste boundary. Wells were located to monitor upgradient and downgradient groundwater conditions based on groundwater flow direction. The monitoring well network was certified by a Professional Engineer licensed in GA on April 17, 2019, and the certification is maintained in the Operating Record pursuant to § 257.90(f). AP-2 and 3/4 monitoring well and piezometer locations are shown on Figures 3A and 3B.

A comprehensive network of monitoring wells was installed for groundwater monitoring in proximity to AP-2 and 3/4. Table 1 includes well construction details for the multi-unit AP-2 and 3/4 monitoring well network. Additionally, a separate network for AP-1 as well as a series of piezometers were installed at the Site. Table 1 also includes the current assessment well network and the construction details for each of the Site wells and piezometers for the multi-unit monitoring network and the separate AP-1 unit.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following section describes monitoring-related activities for sampling performed at the Site from July 2021 through June 2022. Routine groundwater sampling was performed in September 2021 and in January 2022 in accordance with 40 CFR § 257.93. Due to some flooding west of AP-1 during September 2021, some of the monitoring wells were not accessible and a second water level monitoring event was conducted on October 27, 2021. Groundwater monitoring field forms from these monitoring events are contained in Appendix A, while analytical data reports are contained in Appendix B.

2.1 Monitoring Well Installation and Maintenance

As part of ongoing delineation activities, two additional piezometers (B-122D and B-123D) were installed south of AP-3/4. The piezometer installation report is included in Appendix C. There was no change to the detection groundwater monitoring system during this reporting period. Monitoring well related activities included visual inspection of well conditions prior to sampling, recording conditions around the well, and performing exterior maintenance to provide safe access for sampling. The well condition inspection forms are included in Appendix D.

Monitoring wells are inspected semiannually 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 September 2021, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed in October 2021, as documented in Appendix D. This documentation will serve as the required five- year well inspection and was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Pursuant to § 257.94(e), an assessment monitoring program has been established for AP-2 and 3/4 at Plant McDonough based on the SSIs documented in the *2019 Annual Groundwater Monitoring and Corrective Action Report*, (Golder, 2019). A notice of assessment monitoring was placed in the operation record on November 13, 2019.

Groundwater sampling events were conducted for AP-2 and 3/4 in September 2021 and January 2022. Samples were collected from each well in the certified monitoring network as well as those in the assessment monitoring network. The monitoring wells sampled included AP-2 and 3/4 detection and assessment monitoring wells presented in Table 1 and shown on Figures 3A and 3B. Table 2 presents a summary of groundwater sampling events completed for AP-2 and 3/4 and the status of the monitoring network.

During the September 2021 and the January 2022 semi-annual sampling events, groundwater samples were collected for Appendix III and Appendix IV constituents. Results of the sampling activities conducted in September 2021 and January 2022 are discussed in Section 5.0, and the data are presented in Appendix B.

2.3 Additional 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 impacts resulting from the Site. Additional sampling conducted at upgradient monitoring wells B-116D, B-117D, B-118 and B-119D to characterize background conditions at the Site are being evaluated to update the statistical network.

Due to the proximity of the Chattahoochee River in the downgradient direction of the wells with statistically significant levels (SSLs) of cobalt, installation of additional wells to horizontally characterize this area is infeasible. In response, Georgia Power collected surface water samples from the Chattahoochee River on September 7, 2021 and January 25, 2022. The surface water samples collected in September 2021 and January 2022 were analyzed for Appendix III parameters, select Appendix IV parameters (arsenic, cobalt, molybdenum, and selenium) and major ions (magnesium, potassium, sodium, total and bicarbonate alkalinity). Two of the locations within the Chattahoochee River are used for delineation of cobalt (DW_US and CR-0.1). Surface water sampling

locations are shown on Figure 3A. Surface water samples are collected in accordance with *Region 4 U.S. Environmental Protection Agency Science and Ecosystem Support Division Operating Procedures for Surface Water Sampling* SESDPROC-201-R4 (US EPA, 2016). The results of surface water sampling are discussed in Section 5.0 and the laboratory reports associated with each of these sampling events are provided in Appendix B. Georgia Power will continue collecting the surface water samples semi-annually.

As part of ongoing delineation efforts under the assessment monitoring program, samples from newly installed piezometers B-122D and B-123D were collected on June 6, 2022. Results of these analyses is provided in Appendix B.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

Sampling events completed during this reporting period at AP-2 and 3/4 include the September 2021 and January 2022 semi-annual assessment monitoring events. Groundwater analytical data and chain of custody records are presented in Appendix B. The following sections describe methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Elevation Measurement

Sitewide groundwater elevations could not be measured during the September 2021 monitoring event due to significant rainfall that limited access to some well locations. Therefore, sitewide groundwater elevations were recorded in October 2021 and January 2022. Groundwater elevation data are summarized in Table 3. Calculated water level data were used to develop Figures 4A, 4B, 5A and 5B. Site potentiometric maps show that groundwater generally flows west/southwest across the Site, which is consistent with historical observations with localized fluctuations as a result of the ongoing dewatering efforts. Figures 4B and 5B, insets of the northeast portion of AP-3/4, present the effects of the localized dewatering. Groundwater flow in this area is inward towards AP-3/4.

Localized groundwater flow directions within this aquifer are influenced by topographic and top of rock variations on Site as well as recent closure activities including localized dewatering. AP-3/4 is on a topographic high, initially creating radial flow around the ponds, with the exception of the one upland high upgradient of AP-3/4. Dewatering at AP-4 is creating inward gradient northeast of AP-3/4 and is expected to resemble pre-impoundment groundwater conditions corresponding to the higher topographic elevations in that area following closure. AP-2 was over excavated into subgrade soils and filled with onsite backfill from the AP-4 dike, creating a low hydraulic gradient. Construction in the AP-3/4 area is expected to be complete by third quarter of 2022. Regionally groundwater is interpreted to flow south-southeast from the topographic high northwest of AP-3/4 towards AP-2 and the Chattahoochee River.

3.2 Groundwater Gradient and Flow Velocity

Hydraulic gradient is calculated as the difference in groundwater elevation (in feet) divided by the distance between two piezometers or wells (in feet). Groundwater elevation data recorded in October 2021 and January 2022 from two piezometer and/or well pairings; DGWA-53/DGWC-13, and B-26/DGWC-48, located along the groundwater flow path and perpendicular to the potentiometric contours were used to calculate hydraulic gradients for AP-2 and 3/4.

Average groundwater flow velocities at the Site were calculated using hydraulic gradient data, hydraulic conductivity data generated from slug testing results, and an estimated effective porosity of the screened portion of the uppermost aquifer. Based on slug test data, the average hydraulic conductivity for the overburden is 7.70×10^{-4} centimeters/second (cm/s), (Golder, 2022a). An effective porosity of 0.20 (20%) was used based on the default values for effective porosity recommended by US EPA for a silty sand-type soil (US EPA, 1996). The hydraulic gradient calculated between well pairs are shown on Table 4A for October 2021 and 4B for January 2022.

The horizontal flow velocities were calculated using the commonly used derivative of Darcy's Law:

$$V = \frac{K * i}{n_e} \quad \text{Where:}$$

$V =$ Groundwater flow velocity $\left(\frac{\text{feet}}{\text{day}} \right)$
 $K =$ Average hydraulic conductivity of the aquifer $\left(\frac{\text{feet}}{\text{day}} \right)$
 $i =$ Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{feet}} \right)$
 $n_e =$ Effective porosity

Using this equation, groundwater flow velocities were calculated for AP-2 and 3/4 using October 2021 and January 2022 groundwater elevation data as shown on Tables 4A and 4B.

Calculated (horizontal) flow velocities range from approximately 104 feet per year (ft/yr) to 115 ft/yr during the October 2021 and January 2022 events. These estimated flow velocities are consistent with past results and are also generally consistent with other published velocities for regolith-upper bedrock aquifers of the Piedmont (Heath, R.C., 1982). In the vicinity of each of the dewatering wells, small, localized flow changes are observed. Flow rates in this area are temporarily increased as a result of pumping.

3.3 Groundwater Sampling

Groundwater samples were collected in accordance with § 257.93(a) and 391-3-4-.10(6). Monitoring wells were purged and sampled using low-flow sampling procedures. Non-dedicated, low-flow pneumatic bladder pumps and peristaltic pumps were used to purge and sample the wells. Field equipment was decontaminated prior to use and between wells using US EPA Laboratory Services and Applied Science Division, Operating Procedure, Field Equipment Cleaning and Decontamination (US EPA, 2020). In-Situ SmarTroll and AquaTROLL 400 were used to monitor and record field water quality parameters [temperature, specific conductance, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP)] during purging. Turbidity was monitored using a LaMotte 2020we turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- ± 0.1 standard units (S.U.) for pH
- $\pm 5\%$ for specific conductance
- $\pm 10\%$ or ± 0.2 milligrams per liter (mg/L) (whichever is greater) for DO where $DO > 0.5$ mg/L; if $DO < 0.5$ mg/L, no stabilization criteria apply

- ≤5 Nephelometric Turbidity Units (NTUs) for turbidity.

Following well stabilization, unfiltered samples were collected directly into appropriately preserved laboratory supplied sample containers, placed in ice-packed coolers, and submitted to the laboratory following standard chain-of-custody protocol. Field information forms, generated directly from the SmarTroll®/Aqua TROLL®, are provided in Appendix A and chain-of-custody records are included in Appendix B.

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. Calibration forms for field instruments and field data sheets are also included in Appendix A.

3.4 Laboratory Analysis

Groundwater samples were collected in September 2021 and January 2022 as part of the semi-annual sampling events. Because AP-2 and 3/4 is currently in assessment monitoring, groundwater samples from wells in the detection monitoring network were analyzed for Appendix III and Appendix IV monitoring parameters per 40 CFR § 257.93 and § 257.95(d)(2). Tables 5A through 5D presents a tabulated summary of the September 2021 and January 2022 detection, assessment, and supplemental sample results. Results of surface water samples collected in September 2021 and January 2022 are presented on Tables 6A and 6B. Analytical methods used for monitoring parameters can be found in the analytical data reports in Appendix B.

Laboratory analyses for all events were performed by Pace Analytical Services, LLC (Pace) in Norcross, Georgia. Pace is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains NELAP certification for all parameters analyzed for this project. Analytical data, chain-of-custody records, and NELAP certifications for the monitoring events are presented in Appendix B.

3.5 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sample per every 10 samples. QA/QC samples included equipment blanks (where non-dedicated sampling equipment is used), field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation (as described below) and is included in Appendix B.

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, 2017) 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, 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 summaries are provided in Appendix B. The data are considered usable for meeting project objectives and the results are considered valid.

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. Total radium concentration (Radium 226+228) is a combination of isotopes 226 and 228. When radium data are reported below the Minimum Detectable Concentration (MDC), the values are followed by a "U" flag in the tables.

4.0 STATISTICAL ANALYSIS

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-2 and 3/4 (Groundwater Stats Consulting, 2019). The statistical analysis report prepared by Groundwater Stats Consulting, LLC is presented in Appendix E.

4.1 Statistical Method

The selected statistical method for AP-2 and 3/4 was developed in accordance with 40 CFR § 257.93(f), using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance* (US EPA, 2009). The Sanitas groundwater statistical software was used to perform statistical analyses. 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 US EPA 2009 Unified Guidance document.

4.1.1 Appendix III Detection Monitoring Statistical Methods

Appendix III groundwater monitoring data were statistically evaluated through the use of 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

Statistical analyses while in assessment monitoring are performed through the use of confidence intervals compared to the groundwater protection standards (GWPS). 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 GWPS under 40 CFR § 257.95(h) and GA 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, Rule Specified Limits (RSLs) 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).
- 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 concentrations of these constituents is higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes. Following the above stated rule requirements, GWPS were established for

statistical comparison of Appendix IV constituents. Table 7 summarizes the background limit established at each monitoring well and the 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. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. If there is an exceedance of the established standard, an SSL exceedance is identified.

A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix E. The background period for statistical analyses included data through the current event. Tolerance limits for confidence interval calculations are updated to include current data. Due to varying reporting limits in background, the most recent reporting limit is used when data is not reported above detection limits. This results in a more appropriate statistical test.

4.2 Statistical Analysis Results

Analytical data from September 2021 and January 2022 at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified *Statistical Analysis Plan* (Groundwater Stats Consulting, 2019). Verification resampling to confirm initial statistically significant increases (SSIs) was not performed; therefore, initial SSIs are considered verified. The statistical results are included in Appendix E.

4.2.1 September 2021 Appendix III Statistical Results

Based on the statistical results, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS) were identified following the September assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix E.

4.2.2 September 2021 Appendix IV Statistical Results

Analytical data from the September 2021 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method. Review of the Sanitas 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-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	AP-2 and 3/4 Monitoring Well
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93
Lithium	DGWC-47, DGWC-48, B-104D ^[1]
Selenium	DGWC-9
Combined Radium	B-104D

[1] Lithium at B-104D does not exceed the Federal GWPS; only the state GWPS is exceeded. As of February 2022, Lithium at B-104D is no longer an SSL.

4.2.3 January 2022 Appendix III Statistical Results

Based on the statistical results, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and TDS were identified following the January 2022 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix E.

4.2.4 January 2022 Appendix IV Statistical Results

Analytical data from the January 2022 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method. Review of the Sanitas 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-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	AP-2 and 3/4 Monitoring Well
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D
Lithium	DGWC-47, DGWC-48
Selenium ⁽¹⁾	DGWC-9
Combined Radium	B-104D, B-109D

[1] The January 2022 statistical results do not identify Selenium at DGWC-9 as an SSL. However, since this constituent previously exceeded the GWPS, Georgia Power will continue to evaluate the presence of Selenium in DGWC-9 until such time that the entire confidence interval is below the GWPS, and GA EPD concurs with no further action.

5.0 ASSESSMENT MONITORING AND DELINEATION STATUS

CCR compliance groundwater monitoring-related activities have been performed for AP-2 and 3/4 since September 2016 pursuant to the CCR rule. Georgia Power initiated an assessment monitoring program in November 2019 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.

Limited groundwater analytical data are available for some assessment monitoring wells. 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 E.

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, radium and selenium SSLs, multiple piezometers have been installed and sampled at the Site (Golder, 2020a); refer to the table below for constituent delineation status. In addition, surface water has been sampled at multiple locations to demonstrate horizontal

delineation in surface water bodies where proximity to surface water prevented installation of additional wells. Specific details regarding the delineation status at AP-2 and 3/4, including isoconcentration contours for each of the constituents with an exceedance of the GWPS, is discussed in the *Semi-Annual Remedy Selection and Design Progress Report* (Golder, 2022b, Appendix F).

Detection/Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well	Horizontal Delineation Well / Surface Water Monitoring Location
DGWC-5	Beryllium	B-111D	B-93, B-98, Flow is toward AP-4 ^[3]
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4 ^[3]
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4 ^[3]
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4 ^[3]
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4 ^[3]
	Selenium ^[4]	B-101D	DGWC-10, Flow is toward AP-4 ^[3]
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4 ^[3]
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4 ^[3]
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-123D / B-115D ^[1]	B-77
	Cobalt	B-123D /B-115D ^[1]	B-77
	Lithium	B-123D /B-115D ^[1]	B-77
DGWC-48	Beryllium	B-104D / B-122D ^[1]	B-83
	Cobalt	B-104D / B-122D ^[1]	B-83
	Lithium	B-104D / B-122D ^[1]	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4 ^[4]
B-63	Cobalt	B-122D ^[2]	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4 ^[3]
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4 ^[3]
	Cobalt	B-111D	B-98, Flow is toward AP-4 ^[3]
B-104D	Cobalt	B-122D ^[2]	B-122D ^[2]
	Combined Radium ^[5]	B-123D Pending ^[2]	B-122D ^[2]
B-109D	Combined Radium ^[5]	B-123D Pending ^[2]	B-122D ^[2]

Notes:

- [1] Delineation status is pending additional data collection at location B-115D, B-122D, B-123D. A minimum of four data points is needed to perform the required statistical analyses.
- [2] Monitoring wells B-122D and B-123D were installed in March/April 2022 and first sampled in June 2022. Verification sampling is ongoing.

- [3] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.
- [4] Current sample results are below the GWPS.
- [5] An Alternate Source Demonstration (ASD) for Combined Radium has been submitted for Plant McDonough (Appendix G). Georgia Power will continue to monitor the occurrence of combined radium until such time that GA EPD approves the ASD.

Based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4 and the horizontal delineation of target SSL constituents is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is complete with the exception of wells DGWC-47, DGWC-48 and B-104D. Vertical delineation at these locations is ongoing. Horizontal and vertical delineation is summarized below based on review of analytical results, statistical analyses and the isoconcentration contours (Appendix F).

Arsenic at DGWC-9: Groundwater flow is inward toward AP-4 and as such delineation is complete. However, adjacent wells have been sampled and note that horizontal delineation is complete based on results from sampling of DGWC-10. The arsenic SSL noted at DGWC-9 is vertically delineated at well B-101D.

Beryllium at DGWC-5, DGWC-9, DGWC-10, B-92 and B-93: Horizontal delineation in the area of these wells is complete; groundwater flow is inward toward AP-4. Vertical delineation is complete using wells B-111D, B-101D, and B-102D which are installed adjacent to these wells.

Beryllium at DGWC-47 and DGWC-48: Horizontal delineation of beryllium is complete with sampling of monitoring wells B-77 and B-83, respectively. Vertical delineation for beryllium at DGWC-48 is complete with beryllium below the SSL is B-104D. For the vertical delineation of beryllium at DGWC-47, a deeper well, B-103D, was recently installed. Well B-103D did not yield sufficient amounts of water for representative sampling. Water-bearing fractures were not identified during drilling to a depth that exceeds 80 feet below ground surface. The bedrock unit is highly competent with limited connectivity within the unit, where groundwater flow only occurs within discrete fractures. Additional vertical delineation wells (B-122D and B-123D) were installed downgradient. The initial sampling was completed in June 2022. Results are summarized on Tables 5C and 5D and provided in Appendix B and indicate vertical delineation is complete based on results from well B-122D. Resampling of B-123D was completed in July 2022 and results are pending. Vertical delineation at DGWC-47, DGWC-48, and B-104D is ongoing.

Cobalt at DGWC-8, DGWC-9, DGWC-10, B-56, and B-93: Horizontal delineation for cobalt in the area of these wells is complete; groundwater flow is inward toward AP-4. Vertical delineation is complete using wells B-106D, B-101D, B-102D, and B-111D, which were installed adjacent to these wells.

Cobalt at DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63, and B-104D: Horizontal delineation for cobalt at wells DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63 and B-104D is complete with sampling of monitoring wells B-77, B-83, and B-62, and surface water samples from the Chattahoochee River (DW_US, DW_DS, CR+0.1, and CR+0.2). More specifically, the cobalt SSLs identified along the well transect extending from DGWC-47 to B-63 are horizontally delineated by surface water samples collected at DW_US. The cobalt SSLs identified along the well transect extending from DGWC-40 to B-100 are horizontally delineated by surface water

samples collected at CR-0.1 and downstream locations CR+0.2 and CR+0.4. Cobalt SSLs noted along transect DGWC-48 to B-83 are delineated to below GWPS in well B-83.

Vertical delineation for cobalt at wells DGWC-19 and DGWC-20 are delineated using wells B-107D and B-108D. Vertical delineation along the transects extending from GWC-47 to B-63 is vertically delineated by B-122D.

Lithium at DGWC-47 and DGWC-48: Horizontal delineation of lithium is complete with sampling of monitoring wells B-77 and B-83. Vertical delineation for DGWC-47 and DGWC-48 is complete with monitoring of downgradient well B-122D. Vertical delineation at DGWC-47 and DGWC-48 is ongoing.

Selenium at DGWC-9: Horizontal delineation for selenium at DGWC-9 is complete with sampling of DGWC-10. We also note that groundwater flow is inward, toward AP-4. Vertical delineation is complete with sampling of B-101D. January 2022 sample result for selenium at DGWC-9 are below the GWPS and results of statistical analysis no longer demonstrate an SSL. However, selenium will continue to be evaluated and remedial alternatives evaluated until such time as the entire confidence interval is below the GWPS.

Radium at B-104D and B-109D: Horizontal and vertical delineation of radium at B-104D and B-109D is pending further investigation. Natural sources of radium have been identified and an ASD (Appendix G) was submitted to GA EPD (Golder, 2022c) for these concentrations above the GWPS on April 29, 2022 and is pending review.

In summary, based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4 and the horizontal delineation of target SSL constituents is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is ongoing pending additional data collection.

6.0 ASSESSMENT OF CORRECTIVE MEASURES

Following the requirements of 40 CFR § 257.96, Plant McDonough has initiated an Assessment of Corrective Measures (ACM) for arsenic, beryllium, cobalt, and lithium. Notification of this action was placed in the CCR operating record on July 9, 2020. Since the submission of the ACM report in December 2020, selenium was identified as an SSL at well DGWC-9 (Golder, 2020b) and this SSL was incorporated into the ACM evaluation. Since initiation of the ACM, radium was also identified as an SSL. In response, an ASD has been submitted to GA EPD to address the presence of radium in Site groundwater.

In accordance with 40 CFR § 257.97(a), a remedy selection report will be prepared and submitted concurrent with semi-annual groundwater monitoring report 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 F includes the following information:

- i) A summary of the closure status for AP-2 and 3/4 as it relates to source control.
- ii) Summary of work completed to date to achieve delineation of constituents exceeding GWPS 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 data for AP-2 and 3/4 confirms SSIs of Appendix III groundwater monitoring parameters above background and SSLs of Appendix IV groundwater monitoring parameters above the established GWPS. AP-2 and 3/4 will continue to be monitored in accordance with the assessment monitoring program pursuant to 40 CFR § 257.95. An assessment of corrective measures was initiated following the provisions of 40 CFR § 257.96. Pursuant to 40 CFR 257.95(g)(1)(iv), the additional delineation wells may continue to be sampled as part of the ongoing semi-annual assessment monitoring program.

8.0 CONCLUSIONS AND FUTURE ACTIONS

This *2022 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant McDonough-Atkinson – Ash Pond 2 and 3/4* was prepared to fulfill the requirements of US EPA CCR rule 40 CFR 257 Subpart D and Georgia EPD rule 391-3-4-.10.

The groundwater flow direction and rates interpreted during the October 2021 and January 2022 water level gauging events is consistent with the post closure model predictions. Groundwater flow is south toward the Chattahoochee River, consistent with pre site development conditions. Although groundwater flow is toward the south, monitoring wells previously established for delineation will remain in the network for the time being. The monitoring well network continues to effectively monitor the uppermost aquifer beneath AP-2 and 3/4.

Review of analytical results and statistical analyses developed for the Site indicates confirmed SSIs of Appendix III above background and SSLs of Appendix IV above the established GWPS. In accordance with 40 CFR § 257.96, Georgia Power has initiated an assessment of corrective measures study for the identified SSLs. Based on data collected to date, there are no impacts to surface water at Plant McDonough and the horizontal delineation of constituents exhibiting SSLs is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is complete with the exception of wells DGWC-47 and DGWC-48. Results from recent piezometer installation at B-123D is pending resample results.

Based on the findings presented herein, Plant McDonough will continue with assessment groundwater monitoring and reporting. The next sampling event is tentatively scheduled for August 2022.

9.0 REFERENCES

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Tables

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-37	Downgradient	Overburden	1390482.2	2200919.8	766.21	763.7	39.7	734.4	724.4	10	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.7	2201148.6	757.43	754.7	25.0	740.0	730.0	10	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.6	2201540.1	759.89	757.0	21.2	746.2	736.2	10	11/6/2012
DGWC-40	Downgradient	Overburden	1390625.7	2201825.9	779.06	776.2	34.9	751.7	741.7	10	11/5/2012
DGWC-67	Downgradient	Overburden	1390953.8	2200830.7	766.70	767.0	56.3	720.7	710.7	10	3/14/2017
DGWC-68A	Downgradient	Overburden	1391301.2	2200734.9	765.33	765.4	29.8	746.0	736.0	10	4/20/2017
DGWC-69	Downgradient	Overburden	1391585.0	2200657.1	763.75	764.0	24.3	749.7	739.7	10	3/16/2017
DGWC-121	Downgradient	Overburden	1390739.7	2200849.4	764.16	764.5	50.0	724.8	714.8	10	3/22/2022
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.0	70.0	716.0	706.0	10	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.2	2200664.1	765.58	766.1	55.0	721.4	711.4	10	3/22/2021
B-113D	Downgradient	Upper Bedrock	1391264.6	2200719.2	758.22	758.8	85.0	684.4	674.4	10	3/30/2021

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.0	2202119.5	850.88	848.3	49.0	809.6	799.6	10	10/2/2012
DGWC-4	Downgradient	Overburden	1394171.5	2202662.4	814.85	812.1	45.0	777.4	767.4	10	10/3/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.3	2202965.1	791.75	788.7	30.0	769.0	759.0	10	10/4/2012
DGWC-8	Downgradient	Overburden	1394322.2	2203882.1	826.38	824.1	49.1	785.4	775.4	10	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.9	2204170.0	824.35	821.8	30.0	802.2	792.2	10	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.3	2204201.1	823.55	820.9	45.4	785.9	775.9	10	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.1	2204166.2	800.57	798.1	49.1	759.3	749.3	10	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.4	2204128.3	773.86	771.2	25.1	756.5	746.5	10	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.1	2204084.6	794.10	791.3	43.8	757.9	747.9	10	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.2	2204013.3	792.40	789.8	34.3	765.9	755.9	10	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.1	2203679.0	824.50	821.5	67.1	764.8	754.8	10	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.6	2203051.0	837.05	834.2	44.5	800.0	790.0	10	1/9/2013
DGWC-19	Downgradient	Overburden	1392342.6	2202601.0	825.46	822.9	39.8	793.5	783.5	10	3/12/2013
DGWC-20	Downgradient	Overburden	1392164.5	2202315.6	822.14	819.8	39.7	790.7	780.7	10	3/5/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.5	2202063.5	816.28	813.5	69.0	754.9	744.9	10	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.7	60.0	764.0	754.0	10	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.7	60.1	765.9	755.9	10	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.8	2201870.2	804.68	802.0	50.4	762.1	752.1	10	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.8	2202610.5	797.45	794.3	28.8	775.9	765.9	10	6/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.6	2202290.2	788.33	785.2	30.0	765.6	755.6	10	6/22/2016

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-63	Downgradient	Overburden	1390999.1	2202978.1	777.10	777.3	46.0	741.8	731.8	10	10/6/2016
B-66	Downgradient	Overburden	1393858.2	2204277.5	815.90	813.3	55.3	768.3	758.3	10	11/16/2016
B-77	Downgradient	Overburden	1390948.7	2202942.0	776.86	777.1	42.0	745.1	735.1	10	9/17/2019
B-82	Downgradient	Overburden	1393750.0	2204258.1	810.07	807.5	45.0	773.0	763.0	10	9/21/2019
B-83	Downgradient	Overburden	1390735.5	2202695.6	776.98	777.1	48.6	738.5	728.5	10	9/30/2019
B-88	Downgradient	Overburden	1394401.1	2203738.3	820.07	817.0	72.0	755.0	745.0	10	11/15/2019
B-92	Downgradient	Overburden	1394392.7	2203026.7	785.08	785.3	24.6	770.7	760.7	10	12/11/2019
B-93	Downgradient	Overburden	1394348.7	2202946.7	789.07	789.2	28.9	770.3	760.3	10	12/12/2019
B-97	Downgradient	Overburden/Upper Bedrock	1394430.0	2203008.3	786.29	786.6	31.0	765.3	755.3	10	2/11/2020
B-98	Downgradient	Overburden	1394392.5	2202934.0	789.67	789.8	19.4	780.8	770.8	10	2/10/2020
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-101D	Downgradient	Overburden/Upper Bedrock	1394063.6	2204168.2	824.29	821.2	75.0	756.3	746.3	10	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.4	2204200.4	823.42	820.6	85.0	746.2	736.2	10	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.3	2202298.5	787.90	785.3	60.0	735.3	725.3	10	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.1	2203869.2	826.21	823.5	80.0	754.1	744.1	10	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.5	2202596.4	823.38	820.6	85.8	745.5	735.5	10	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.1	2202312.5	821.13	818.4	80.0	749.4	739.4	10	10/27/2020
B-109D	Downgradient	Upper Bedrock	1393957.5	2202127.0	850.73	847.8	100.0	758.4	748.4	10	10/31/2020
B-111D	Downgradient	Upper Bedrock	1394303.4	2202956.4	791.87	789.1	85.0	714.9	704.9	10	11/3/2020
B-115D	Downgradient	Upper Bedrock	1391265.3	2202580.7	789.17	786.4	80.0	717.2	707.2	10	3/20/2021
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.0	70.0	775.0	765.0	10	3/6/2021
B-122D	Downgradient	Bedrock	1390992.8	2202975.4	777.03	777.3	85.0	707.5	697.5	10	3/24/2022

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1, ASH POND 2 AND ASH POND 3/4 SUPPLEMENTAL SAMPLING NETWORK											
B-90	Downgradient	Overburden	1394501.0	2203212.6	784.00	784.2	33.4	760.8	750.8	10	12/10/2019
B-91	Downgradient	Overburden	1394447.1	2203123.9	782.98	783.1	34.6	758.5	748.5	10	12/11/2019
B-95	Downgradient	Overburden	1394518.6	2203167.7	784.00	784.3	33.3	761.3	751.3	10	2/11/2020
B-96	Downgradient	Overburden	1394478.7	2203099.3	784.92	785.3	33.1	762.2	752.2	10	2/10/2020
B-99	Downgradient	Overburden	1394524.2	2203084.5	782.39	782.6	12.3	775.3	770.3	5	7/7/2020
B-116D	Upgradient	Upper Bedrock	1390483.7	2200611.0	807.82	805.3	90.0	726.1	716.1	10	3/8/2021
B-117D	Upgradient	Upper Bedrock	1393963.8	2201727.3	863.82	861.2	75.0	796.5	786.5	10	3/17/2021
B-118	Upgradient	Upper Bedrock	1391219.3	2200449.7	807.70	805.0	75.0	740.2	730.2	10	3/9/2021
B-119D	Upgradient	Upper Bedrock	1391236.4	2200446.6	807.15	804.5	105	709.8	699.8	10	3/16/2021
PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.1	2202411.5	837.78	835.0	37.0	808.3	798.3	10	10/3/2012
B-6	Downgradient	Overburden	1394419.5	2203266.5	789.47	786.5	35.4	761.5	751.5	10	10/9/2012
B-7	Downgradient	Overburden	1394374.6	2203596.1	809.16	806.1	25.2	791.3	781.3	10	10/9/2012
B-16	Downgradient	Overburden	1392595.1	2203315.4	826.47	823.6	43.7	790.2	780.2	10	12/19/2012
B-18	Downgradient	Overburden	1392521.0	2202875.5	826.56	823.9	32.6	801.5	791.5	10	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.3	79.1	751.0	741.0	10	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.5	54.8	789.1	779.1	10	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.6	49.3	811.7	801.7	10	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.4	2201679.2	816.08	813.3	69.4	754.3	744.3	10	10/31/2012
B-29	Downgradient	Overburden	1391890.0	2201422.0	816.43	813.5	54.4	769.4	759.4	10	1/11/2013
B-31	Downgradient	Upper Bedrock	1392034.3	2200928.5	797.47	794.9	45.1	760.2	750.2	10	1/22/2013
B-41	Downgradient	Overburden	1390920.8	2201751.9	795.20	792.4	60.0	743.0	733.0	10	11/14/2012
B-50	Downgradient	Overburden	1391657.1	2201841.0	809.67	809.2	36.0	784.4	774.4	10	6/24/2016
B-51	Downgradient	Overburden	1390501.2	2200906.5	765.92	763.3	65.0	708.3	698.3	10	6/27/2016
B-52	Downgradient	Overburden	1392308.3	2201314.8	822.89	820.3	50.0	781.4	771.4	10	9/28/2016

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-54	Downgradient	Overburden/Upper Bedrock	1394423.5	2203140.7	785.46	782.6	34.2	758.8	748.8	10	9/26/2016
B-55	Downgradient	Overburden	1394142.6	2204147.9	825.12	822.9	52.0	781.9	771.9	10	9/22/2016
B-57	Downgradient	Upper Bedrock	1391396.3	2202736.9	789.04	786.0	50.5	746.0	736.0	10	9/24/2016
B-58	Downgradient	Overburden	1391125.7	2202426.5	788.17	785.2	45.0	750.7	740.7	10	9/23/2016
B-59	Downgradient	Overburden/Upper Bedrock	1394349.1	2203001.1	788.00	785.5	30.3	765.3	755.3	10	9/23/2016
B-60	Downgradient	Overburden	1391100.7	2202881.6	782.13	779.2	49.8	739.9	729.9	10	9/29/2016
B-61	Downgradient	Overburden	1390957.8	2202505.8	782.09	779.0	51.9	737.5	727.5	10	9/29/2016
B-64	Downgradient	Overburden	1394381.9	2203031.3	785.83	786.1	30.4	766.1	756.1	10	11/2/2016
B-65	Downgradient	Overburden/Upper Bedrock	1394381.2	2204050.8	821.95	822.3	45.4	787.9	777.9	10	11/15/2016
B-68	Downgradient	Overburden	1391298.2	2200714.2	758.68	759.0	18.0	751.0	741.0	10	3/16/2017
B-72	Downgradient	Overburden	1391242.2	2200723.9	758.85	758.09	21.9	746.6	736.6	10	4/19/2017
B-73	Downgradient	Overburden	1391352.4	2200697.5	759.46	758.85	15.8	753.5	743.5	10	4/19/2017
B-74	Downgradient	Overburden	1391279.8	2200665.3	759.44	758.96	16.5	748.2	743.2	5	4/25/2017
B-78	Downgradient	Overburden/Upper Bedrock	1394328.2	2202958.2	790.75	788.0	30.0	768.0	758.5	10	9/22/2019
B-79	Downgradient	Overburden	1394458.6	2203223.0	788.66	785.9	34.9	761.0	751.5	10	9/21/2019
B-80	Downgradient	Overburden	1394372.6	2203533.9	804.47	801.8	30.0	782.0	772.5	10	9/20/2019
B-81	Downgradient	Overburden	1394364.9	2203741.1	820.56	817.7	50.0	778.5	768.5	10	9/22/2019
B-84	Downgradient	Overburden	1390411.9	2202241.9	776.24	776.3	49.1	737.5	727.5	10	10/1/2019
B-85	Downgradient	Overburden/Upper Bedrock	1394433.4	2203134.5	782.54	782.7	34.5	758.5	748.5	10	11/18/2019
B-86	Downgradient	Overburden/Upper Bedrock	1394480.0	2203206.6	784.29	784.6	34.1	760.5	750.5	10	11/18/2019

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 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-87	Downgradient	Overburden	1394401.9	2203531.3	803.37	800.4	42.0	768.7	758.7	10	11/17/2019
B-89	Downgradient	Upper Bedrock	1394398.4	2204049.4	822.36	822.6	49.5	783.1	773.1	10	11/19/2019
B-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.2	764.6	754.6	10	1/23/2020
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.0	733.8	723.8	10	10/15/2020
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.0	711.7	701.7	10	11/17/2020
B-123D	Downgradient	Bedrock	1391234.4	2202608.4	781.80	778.9	160.0	668.9	618.9	50	4/4/2022

Notes:

1. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
2. bgs - Below Ground Surface; NAD - North American Datum; NAVD - North American Vertical Datum

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		September 2021	January 2022	
Purpose of Sampling Event		Detection/ Assessment	Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) MONITORING WELL NETWORK				
DGWA-53	Upgradient	X	X	Assessment
DGWA-70A	Upgradient	X	X	Assessment
DGWA-71	Upgradient	X	X	Assessment
DGWC-2	Downgradient	X	X	Assessment
DGWC-4	Downgradient	X	X	Assessment
DGWC-5	Downgradient	X	X	Assessment
DGWC-8	Downgradient	X	X	Assessment
DGWC-9	Downgradient	X	X	Assessment
DGWC-10	Downgradient	X	X	Assessment
DGWC-11	Downgradient	X	X	Assessment
DGWC-12	Downgradient	X	X	Assessment
DGWC-13	Downgradient	X	X	Assessment
DGWC-14	Downgradient	X	X	Assessment
DGWC-15	Downgradient	X	X	Assessment
DGWC-17	Downgradient	X	X	Assessment
DGWC-19	Downgradient	X	X	Assessment
DGWC-20	Downgradient	X	X	Assessment
DGWC-21	Downgradient	X	X	Assessment
DGWC-22	Downgradient	X	X	Assessment
DGWC-23	Downgradient	X	X	Assessment
DGWC-42	Downgradient	X	X	Assessment
DGWC-47	Downgradient	X	X	Assessment
DGWC-48	Downgradient	X	X	Assessment
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK				
B-56	Downgradient	X	X	Assessment
B-62	Downgradient	X	X	Assessment
B-63	Downgradient	X	X	Assessment
B-66	Downgradient	X	X	Assessment
B-77	Downgradient	X	X	Assessment

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		September 2021	January 2022	
Purpose of Sampling Event		Detection/ Assessment	Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK				
B-82	Downgradient	X	X	Assessment
B-83	Downgradient	X	X	Assessment
B-88	Downgradient	X	X	Assessment
B-92	Downgradient	X	X	Assessment
B-93	Downgradient	X	X	Assessment
B-97	Downgradient	X	X	Assessment
B-98	Downgradient	X	X	Assessment
B-100	Downgradient	X	X	Assessment
B-101D	Downgradient	X	X	Assessment
B-102D	Downgradient	X	X	Assessment
B-104D	Downgradient	X	X	Assessment
B-106D	Downgradient	X	X	Assessment
B-107D	Downgradient	X	X	Assessment
B-108D	Downgradient	X	X	Assessment
B-109D	Downgradient	X	X	Assessment
B-111D	Downgradient	X	X	Assessment
B-115D	Downgradient	X	X	Assessment
B-120D	Downgradient	X	X	Assessment
B-122D ^[1]	Downgradient	--	X ^[1]	Assessment
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) SUPPLEMENTAL SAMPLING				
B-90	Upgradient	--	X	Supplemental
B-91	Upgradient	--	X	Supplemental
B-95	Upgradient	--	X	Supplemental
B-96	Upgradient	--	X	Supplemental
B-99	Upgradient	--	X	Supplemental
B-116D	Upgradient	X	X	Supplemental
B-117D	Upgradient	X	X	Supplemental
B-118	Upgradient	X	X	Supplemental
B-119D	Upgradient	X	X	Supplemental
B-123D ^[1]	Downgradient	X	X	Supplemental

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		10/27/2021	1/18/2022
ASH POND 1 (AP-1) MONITORING WELLS			
DGWA-53	844.26	829.75	833.41
DGWA-70A	808.52	766.90	767.00
DGWA-71	863.84	835.19	835.49
DGWC-37	766.21	752.28	752.81
DGWC-38	757.43	751.08	751.38
DGWC-39	759.89	752.00	753.11
DGWC-40	779.06	760.54	761.83
DGWC-67	766.70	756.39	757.03
DGWC-68A	765.33	754.97	755.45
DGWC-69	763.75	757.55	758.17
DGWC-121	764.16	--	--
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) MONITORING WELLS			
DGWA-53	844.26	829.75	833.41
DGWA-70A	808.52	766.90	767.00
DGWA-71	863.84	835.19	835.49
DGWC-2	850.88	820.66	821.71
DGWC-4	814.85	790.13	790.75
DGWC-5	791.75	781.04	782.25
DGWC-8	826.38	787.64	786.94
DGWC-9	824.35	798.22	BTOP
DGWC-10	823.55	794.64	796.63
DGWC-11	800.57	785.55	790.14
DGWC-12	773.86	762.68	766.10
DGWC-13	794.10	760.25	759.56
DGWC-14	792.40	771.99	771.32
DGWC-15	824.50	784.44	783.82
DGWC-17	837.05	802.35	802.91
DGWC-19	825.46	800.23	800.23
DGWC-20	822.14	799.51	799.35
DGWC-21	816.28	799.93	799.38
DGWC-22	816.59	795.57	795.80
DGWC-23	818.37	795.74	799.31
DGWC-42	804.68	775.13	774.95
DGWC-47	797.45	777.86	780.54
DGWC-48	788.33	773.68	774.25

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		10/27/2021	1/18/2022
PIEZOMETERS			
B-3	837.78	801.63	801.27
B-6	789.47	783.05	783.74
B-7	809.16	784.50	784.72
B-16	826.47	792.85	791.85
B-18	826.56	803.08	803.71
B-24	822.11	804.48	803.92
B-25	836.54	818.52	822.26
B-26	853.60	825.71	826.72
B-28	816.08	785.73	786.64
B-29	816.43	787.34	788.92
B-31	797.47	763.41	763.85
B-41	795.20	770.17	770.93
B-50	809.67	787.79	787.64
B-51	765.92	752.76	753.29
B-52	822.89	797.81	797.23
B-54	785.46	779.36	779.74
B-55	825.12	798.84	799.41
B-56	823.59	795.43	795.91
B-57	789.04	770.89	770.19
B-58	788.17	769.31	768.75
B-59	788.00	779.88	780.60
B-60	782.13	751.61	751.29
B-61	782.09	763.66	763.24
B-62	760.08	744.95	745.58
B-63	777.10	748.75	748.95
B-64	785.83	779.28	780.03
B-65	821.95	801.83	801.53
B-66	815.90	796.40	799.00
B-68	758.68	754.70	755.12
B-72	758.46	754.96	755.33
B-73	759.21	754.71	755.29
B-74	759.06	754.90	755.31
B-76	760.53	745.71	746.10
B-77	776.86	747.48	748.13
B-78	790.75	779.65	780.47
B-79	788.66	781.58	781.97
B-80	804.47	784.84	785.16
B-81	820.56	784.31	784.29

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		10/27/2021	1/18/2022
PIEZOMETERS			
B-82	810.07	793.97	798.12
B-83	776.98	746.58	746.75
B-84	776.34	745.42	745.68
B-85	782.54	779.14	779.69
B-86	784.29	782.10	782.65
B-87	803.37	784.94	785.35
B-88	820.07	783.58	783.78
B-89	822.36	796.56	795.86
B-90	784.00	781.97	782.48
B-91	782.98	779.18	779.58
B-92	785.08	779.36	780.13
B-93	789.07	780.57	782.04
B-94	801.74	784.86	785.30
B-95	784.00	781.90	782.15
B-96	784.92	778.88	779.66
B-97	786.29	779.84	781.36
B-98	789.67	780.15	782.45
B-99	782.39	778.63	779.44
B-100	777.95	744.70	744.44
B-101D	824.29	793.84	793.97
B-102D	823.42	791.56	792.20
B-103D	795.96	782.28	783.34
B-104D	787.90	780.44	780.77
B-105D	779.01	760.75	762.19
B-106D	826.21	787.01	786.33
B-107D	823.38	800.95	800.67
B-108D	821.13	800.27	799.68
B-109D	850.73	811.87	811.95
B-110D	764.61	755.69	756.09
B-111D	791.87	780.07	781.56
B-112D	765.58	757.86	758.48
B-113D	758.22	756.21	756.79
B-115D	789.17	768.96	768.28
B-116D	807.82	764.80	765.35
B-117D	863.82	834.63	834.67
B-118	807.70	756.15	756.6
B-119D	807.15	759.14	759.76
B-120D	836.42	801.72	801.34
B-122D	777.03	--	--
B-123D	781.80	--	--

Notes:

1. Elevation data recorded in feet North American Vertical Datum (NAVD)
2. Survey data for monitoring wells and piezometers provided by Metro Engineering.
3. -- = Not Available
4. BTOP = Below top of pump
5. Monitoring well DGWC-121 and peizometers B-122D and B-123D were installed in March/April 2022.

TABLE 4A
GROUNDWATER VELOCITY CALCULATIONS - OCTOBER 2021
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet)	Δh (feet) ¹	Δl (feet) ²	Hydraulic Gradient ($\Delta h/\Delta l$) ³	Average Hydraulic Conductivity, K (centimeter per second) ⁵	Assumed Effective Porosity (n_e) ⁶	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)								
DGWA-53/DGWC-13	829.75	69.50	2550	0.027	0.00077	0.2	0.30	109
	760.25							
B-26/DGWC-48	825.71	52.03	2000	0.026	0.00077	0.2	0.28	104
	773.68							

Notes:

1. Δh = Change in groundwater elevation
2. Δl = Distance along flow path
3. $l = \Delta h / \Delta l$
4. Velocity = $(l * K)/n_e$
5. Hydraulic conductivity based on historic aquifer performance tests
6. Assumed effective porosities for overburden was based on the default values recommended by USEPA for a silty sand-type soil (1996). Assumed effective porosity for bedrock was derived from Daniel and Dahlen (2002) and Dowd and Marshall (1995).

TABLE 4B
GROUNDWATER VELOCITY CALCULATIONS - JANUARY 2022
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet)	Δh (feet) ¹	Δl (feet) ²	Hydraulic Gradient ($\Delta h/\Delta l$) ³	Average Hydraulic Conductivity, K (centimeter per second) ⁵	Assumed Effective Porosity (n_e) ⁶	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)								
DGWA-53/DGWC-13	833.41	73.85	2550	0.029	0.00077	0.2	0.32	115
	759.56							
B-26/DGWC-48	826.72	52.47	2000	0.026	0.00077	0.2	0.29	105
	774.25							

Notes:

1. Δh = Change in groundwater elevation
2. Δl = Distance along flow path
3. $l = \Delta h / \Delta l$
4. Velocity = $(l * K)/n_e$
5. Hydraulic conductivity based on historic aquifer performance tests
6. Assumed effective porosities for overburden was based on the default values recommended by USEPA for a silty sand-type soil (1996). Assumed effective porosity for bedrock was derived from Daniel and Dahlen (2002) and Dowd and Marshall (1995).

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2021
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	DETECTION MONITORING WELLS												
		DGWA-53	DGWA-70A	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-9	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14
		9/9/2021	9/9/2021	9/8/2021	9/9/2021	9/10/2021	9/10/2021	9/13/2021	9/10/2021	9/10/2021	9/9/2021	9/9/2021	9/9/2021	9/9/2021
Appendix III														
BORON, TOTAL	mg/L	0.065	< 0.0086	< 0.0086	0.51	5.0	4.7	0.86	0.54	0.24	1.5	2.0	0.62	0.080
CALCIUM, TOTAL	mg/L	18.3	5.3	6.1	42.0	285	123	36.0	47.7	82.4	66.8	29.2	38.2	11.1
CHLORIDE, TOTAL	mg/L	1.8	1.9	5.9	2.1	13.9	9.9	8.2	9.0	8.2	13.6	8.5	12.9	3.3
FLUORIDE, TOTAL	mg/L	0.099 J	< 0.050	< 0.050	0.053 J	< 0.050	0.16	0.069 J	2.0	2.2	< 0.050	0.099 J	0.083 J	< 0.050
pH	S.U.	6.41	5.50	5.76	6.00	5.83	4.89	5.05	3.98	5.05	5.59	6.07	5.69	5.70
SULFATE, TOTAL	mg/L	11.9	< 0.50	6.1	110	823	449	145	264	271	247	126	127	42.3
TOTAL DISSOLVED SOLIDS	mg/L	131	53.0	75.0	260	1520	792	306	466	474	433	275	246	99.0
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	0.0015 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0031 J	< 0.0011	0.031	0.0076	< 0.0011	< 0.0011	< 0.0011	< 0.0011
BARIUM, TOTAL	mg/L	0.099	0.038	0.025	0.022	0.032	0.015	0.019	0.014	0.019	0.054	0.040	0.027	0.059
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.000089 J	0.000091 J	< 0.000054	0.00028 J	0.0075	0.0015	0.0049	0.0074	0.00013 J	0.000084 J	0.000070 J	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00090	0.00093	0.0020	0.00053	0.00061	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0064	< 0.00039	< 0.00039	0.0048 J	0.0019 J	0.022	0.028	0.21	0.076	0.00081 J	0.034	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.099 J	< 0.050	< 0.050	0.053 J	< 0.050	0.16	0.069 J	2.0	2.2	< 0.050	0.099 J	0.083 J	< 0.050
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0091 J	< 0.00073	0.0013 J	0.024 J	0.0035 J	0.0071 J	0.0034 J	0.027 J	0.0051 J	0.0029 J	< 0.00073	0.0036 J	0.0044 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	0.000096 J	< 0.000078	0.00013 J	0.00030	< 0.000078	0.00014 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	0.025	< 0.00074	< 0.00074	0.0023 J	0.0052 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.011	< 0.00074
RADIUM (226 + 228)	pCi/L	2.72	0.779	0.0510	1.22 U	1.46	1.15	0.916 U	1.28	0.882 U	1.20 U	1.78	1.23 U	0.643 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0031 J	< 0.0014	0.0099	< 0.0014	0.057	0.034	< 0.0014	< 0.0014	0.0060	0.0017 J
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00019 J	0.00040 J	0.00027 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 method detection limit.
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.

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2021
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	UNITS	DETECTION MONITORING WELLS										ASSESSMENT MONITORING WELLS		
		DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48	B-56	B-62	B-63
		9/9/2021	9/13/2021	9/9/2021	9/10/2021	9/9/2021	9/10/2021	9/9/2021	9/13/2021	9/10/2021	9/10/2021	9/13/2021	9/9/2021	9/14/2021
Appendix III														
BORON, TOTAL	mg/L	1.6	0.78	2.7	4.8	5.8	4.5	4.7	0.95	0.16	0.55	1.5	0.068	0.35
CALCIUM, TOTAL	mg/L	34.4	15.8	93.6	69.8	75.3	62.3	76.4	38.9	24.4	68.7	15.2	29.2	22.7
CHLORIDE, TOTAL	mg/L	21.9	18.2	25.4	26.2	20.2	17.3	12.3	17.1	2.4	10.9	7.1	5.8	7.1
FLUORIDE, TOTAL	mg/L	< 0.050	0.063 J	0.18	0.25	< 0.050	< 0.050	0.084 J	< 0.050	0.22	0.47	0.2	0.14	0.16
pH	S.U.	5.83	5.06	4.82	4.67	5.73	5.65	6.00	5.15	4.10	4.30	4.69	6.31	5.46
SULFATE, TOTAL	mg/L	139	222	315	399	238	234	217	285	123	272	189	49.2	73.2
TOTAL DISSOLVED SOLIDS	mg/L	292	424	480	678	396	468	455	508	274	532	321	174	170
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0018 J	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	0.0027 J	0.0083	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0016 J	< 0.0011	0.0031 J	< 0.0011	< 0.0011
BARIUM, TOTAL	mg/L	0.041	0.031	0.025	0.0098	0.023	0.027	0.021	0.014	0.021	0.013	0.026	0.021	0.026
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00052	0.0022	0.0024	0.00018 J	0.00014 J	0.00050 J	0.0024	0.0090	0.0070	0.0012	0.00014 J	0.00042 J
CADMIUM, TOTAL	mg/L	< 0.00011	0.00023 J	0.00037 J	0.0012	0.00012 J	0.00061	0.00019 J	0.00042 J	0.0014	0.0028	0.00028 J	< 0.00011	0.00025 J
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0027 J	0.0030 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0016 J	0.019	0.055	0.45	0.0096	0.0076	0.00049 J	0.0080	0.23	0.36	0.047	< 0.00039	0.037
FLUORIDE, TOTAL	mg/L	< 0.050	0.063 J	0.18	0.25	< 0.050	< 0.050	0.084 J	< 0.050	0.22	0.47	0.20	0.14	0.16
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.00099 J	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0057 J	< 0.00073	0.0035 J	0.0023 J	0.0060 J	0.0039 J	0.0081 J	0.015 J	0.053	0.095	0.0055 J	0.0094 J	0.0064 J
MERCURY, TOTAL	mg/L	< 0.000078	0.000086 J	< 0.000078	< 0.000078	< 0.000078	0.00011 J	0.00011 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.010	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.624 U	0.850 U	0.239 U	0.689 U	0.702 U	0.616 U	1.81	1.15 U	2.32	2.21	0.854 U	1.70	1.68
SELENIUM, TOTAL	mg/L	< 0.0014	0.0071	0.0083	0.031	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0035 J	0.0022 J	0.011	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00056 J	0.00052 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00036 J	< 0.00018	0.00024 J	< 0.00018	< 0.00018

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 method detection limit.
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.

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2021
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS												
		B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D
		9/14/2021	9/14/2021	9/14/2021	9/16/2021	9/13/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/13/2021	9/13/2021	9/10/2021
Appendix III														
BORON, TOTAL	mg/L	2.1	0.29	0.78	0.3	2.0	2.3	3.1	3.3	2.6	0.24	1.6	2.5	0.23
CALCIUM, TOTAL	mg/L	60.9	17	33.4	39.4	80.5	110	129	178	105	51.5	53.6	84.7	151
CHLORIDE, TOTAL	mg/L	8.9	4.7	9.5	2.6	8.2	10.4	13.2	18.8	29.9	11.1	8.7	10.2	7.9
FLUORIDE, TOTAL	mg/L	0.22	0.078 J	0.052 J	0.066 J	<0.050	0.18	0.34	0.085 J	0.098 J	<0.050	0.051 J	0.083 J	0.50
pH	S.U.	5.54	6.42	5.15	5.58	5.68	4.55	4.60	5.49	5.40	5.27	6.07	5.36	8.58
SULFATE, TOTAL	mg/L	268	2.5	326	106	321	384	478	551	325	351	174	271	456
TOTAL DISSOLVED SOLIDS	mg/L	490	94.0	536	223	572	612	812	892	524	636	343	474	776
Appendix IV														
ANTIMONY, TOTAL	mg/L	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0010 J	<0.00078	<0.00078
ARSENIC, TOTAL	mg/L	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0012 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0019 J
BARIUM, TOTAL	mg/L	0.018	0.12	0.022	0.030	0.016	0.015	0.016	0.020	0.082	0.021	0.076	0.020	0.021
BERYLLIUM, TOTAL	mg/L	<0.000054	<0.000054	0.0017	0.00028 J	0.0010	0.014	0.015	0.0016	0.00087	0.00053	0.000067 J	0.0011	0.0011
CADMIUM, TOTAL	mg/L	<0.00011	<0.00011	0.0007	0.00030 J	0.0013	0.00096	0.00088	0.00056	0.00030 J	0.00029 J	<0.00011	0.00083	<0.00011
CHROMIUM, TOTAL	mg/L	<0.0011	<0.0011	<0.0011	0.0030 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0014 J	<0.0011	<0.0011
COBALT, TOTAL	mg/L	0.012	<0.00039	0.0015 J	0.011	0.0018 J	0.063	0.062	0.0030 J	0.0048 J	0.035	0.0030 J	0.013	0.10
FLUORIDE, TOTAL	mg/L	0.22	0.078 J	0.052 J	0.066 J	<0.050	0.18	0.34	0.085 J	0.098 J	<0.050	0.051 J	0.083 J	0.50
LEAD, TOTAL	mg/L	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
LITHIUM, TOTAL	mg/L	<0.00073	<0.00073	0.0010 J	0.0021 J	0.0017 J	0.012 J	0.011 J	0.0042 J	0.0012 J	0.0022 J	0.011 J	0.012 J	0.036
MERCURY, TOTAL	mg/L	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.00017 J	0.000098 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
MOLYBDENUM, 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
RADIUM (226 + 228)	pCi/L	0.421 U	0.617 U	1.03 U	0.442 U	0.771 U	1.39	1.84	2.11	2.20	0.774 U	1.80	1.74	9.60
SELENIUM, TOTAL	mg/L	<0.0014	<0.0014	<0.0014	0.025	0.0021 J	0.0067	0.0076	0.0024 J	0.0033 J	<0.0014	<0.0014	<0.0014	<0.0014
THALLIUM, TOTAL	mg/L	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018

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 method detection limit.

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.

TABLE 5B
ANALYTICAL DATA SUMMARY
Additional Sampling - September 2021
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL MONITORING WELLS			
		B-116D	B-117D	B-118	B-119D
		9/9/2021	9/8/2021	9/8/2021	9/8/2021
Appendix III					
BORON, TOTAL	mg/L	< 0.0086	< 0.0086	< 0.0086	0.018 J
CALCIUM, TOTAL	mg/L	9.9	11.3	5.0	20.2
CHLORIDE, TOTAL	mg/L	2.7	6.0	3.0	7.5
FLUORIDE, TOTAL	mg/L	< 0.050	0.058 J	< 0.050	0.16
pH	S.U.	6.02	6.00	6.01	6.88
SULFATE, TOTAL	mg/L	0.73 J	31.1	0.99 J	76.2
TOTAL DISSOLVED SOLIDS	mg/L	93.0	152	65.0	191
Appendix IV					
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	0.00087 J
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	0.0011 J	0.0014 J
BARIUM, TOTAL	mg/L	0.017	0.048	0.021	0.0080
BERYLLIUM, TOTAL	mg/L	< 0.000054	< 0.000054	< 0.000054	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	< 0.00039	0.00043 J	< 0.00039	0.00077 J
FLUORIDE, TOTAL	mg/L	< 0.050	0.058 J	< 0.050	0.16
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0055 J	0.0069 J	0.0028 J	0.0028 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	0.0056 J	0.022
RADIUM (226 + 228)	pCi/L	0.887 U	0.695 U	0.0324 U	0.168 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 method detection limit.
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.

TABLE 5C
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - January 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	DETECTION MONITORING WELLS												
		DGWA-53	DGWA-70A	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-9	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14
		1/28/2022	1/18/2022	1/18/2022	1/20/2022	1/24/2022	1/24/2022	1/25/2022	1/26/2022	1/26/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022
Appendix III														
BORON, TOTAL	mg/L	0.062	0.024 J	0.015 J	0.5	5.1	4.4	0.98	0.69	0.4	1.7	0.7	0.69	0.097
CALCIUM, TOTAL	mg/L	19.5	6.1	6.6	44.6	299	112	36.8	48.4	76.8	70.2	28.5	43.2	12.4
CHLORIDE, TOTAL	mg/L	1.8	1.9	5.9	2	12.5	9.9	9.3	9.1	9	14.1	8.1	14.3	3.7
FLUORIDE, TOTAL	mg/L	0.08 J	< 0.05	< 0.05	< 0.05	< 0.05	0.19	< 0.05	1.2	1.8	< 0.05	0.093 J	0.063 J	< 0.05
pH	S.U.	6.35	5.50	5.51	5.93	5.79	4.79	5.16	3.68	4.90	5.54	5.96	4.68	5.69
SULFATE, TOTAL	mg/L	13.1	< 0.5	6.3	101	816	434	134	245	241	250	111	116	44.4
TOTAL DISSOLVED SOLIDS	mg/L	155	54	76	238	1520	810	281	409	425	465	258	256	120
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0021 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	0.0024 J	0.0046 J	0.0054	0.0023 J	0.0011 J	0.0019 J	< 0.0011	0.012	0.0043 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
BARIUM, TOTAL	mg/L	0.068	0.043	0.029	0.022	0.035	0.018	0.019	0.016	0.022	0.047	0.054	0.028	0.064
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.000092 J	0.00012 J	< 0.000054	0.00033 J	0.0084	0.0012	0.0054	0.0091	0.00019 J	< 0.000054	0.000091 J	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00098	0.00094	0.0016	0.00059	0.0007	0.00016 J	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0029 J	0.0011 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.014	< 0.00039	< 0.00039	0.004 J	0.0019 J	0.025	0.019	0.22	0.099	0.0015 J	0.018	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.08 J	< 0.05	< 0.05	< 0.05	< 0.05	0.19	< 0.05	1.2	1.8	< 0.05	0.093 J	0.063 J	< 0.05
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0091 J	< 0.00073	0.0013 J	0.024 J	0.0038 J	0.0068 J	0.0032 J	0.029 J	0.0059 J	0.0021 J	< 0.00073	0.0037 J	0.0043 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	0.00015 J	< 0.00013	0.00022	0.00028	< 0.00013	0.00014 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	0.026	< 0.00074	< 0.00074	0.0022 J	0.0045 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0093 J	< 0.00074
RADIUM (226 + 228)	pCi/L	2.10	1.26	0.729 U	0.722 U	0.944 U	0.807 U	0.356 U	0.789 U	1.21	0.983 U	0.739 U	0.254 U	0.229 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0031 J	< 0.0014	0.0048 J	< 0.0014	0.025	0.015	< 0.0014	< 0.0014	0.006	0.0016 J
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00019 J	< 0.0009	0.00033 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 method detection limit.
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.

TABLE 5C
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - January 2022
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	UNITS	DETECTION MONITORING WELLS										ASSESSMENT MONITORING WELLS		
		DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48	B-56	B-62	B-63
		1/24/2022	1/24/2022	1/25/2022	1/21/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/21/2022	1/24/2022	1/27/2022	1/20/2022	1/20/2022
Appendix III														
BORON, TOTAL	mg/L	1.4	0.9	2.5	3.6	6.9	4.2	4.5	0.83	0.17	0.61	1.6	0.077	0.21
CALCIUM, TOTAL	mg/L	33.2	15.6	101	104	83.7	67.3	82.7	38.1	31	61.2	19.8	36.3	22.9
CHLORIDE, TOTAL	mg/L	21.5	19.2	23.7	27	18.6	18.1	12	18.2	3.1	11.3	7.6	5.6	15
FLUORIDE, TOTAL	mg/L	< 0.050	< 0.050	0.16	1.3	< 0.050	< 0.050	< 0.050	< 0.050	0.64	0.59	0.21	0.099 J	0.12
pH	S.U.	6.06	5.15	4.79	4.47	5.73	5.72	5.95	5.27	3.72	4.03	4.70	6.32	5.46
SULFATE, TOTAL	mg/L	127	225	288	406	223	221	211	281	135	265	185	50.3	49.4
TOTAL DISSOLVED SOLIDS	mg/L	294	426	694	702	451	434	453	504	289	500	344	187	177
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0011 J	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	0.0014 J	0.0014 J	0.015	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0036 J	< 0.0011	0.0045 J	0.0033 J	0.0022 J
BARIUM, TOTAL	mg/L	0.041	0.031	0.026	0.018	0.024	0.029	0.024	0.014	0.017	0.014	0.030	0.021	0.020
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00059	0.0019	0.007	0.00019 J	0.00014 J	0.00046 J	0.002	0.01	0.0069	0.0012	0.00015 J	0.00034 J
CADMIUM, TOTAL	mg/L	< 0.00011	0.00027 J	0.00041 J	0.0028	< 0.00011	0.00052	0.00012 J	0.00038 J	0.0019	0.0029	0.00025 J	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0029 J	0.0029 J	0.0021 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0014 J	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0015 J	0.019	0.054	0.95	0.0076	0.0075	0.00058 J	0.0056	0.24	0.34	0.052	< 0.00039	0.039
FLUORIDE, TOTAL	mg/L	< 0.050	< 0.050	0.16	1.3	< 0.050	< 0.050	< 0.050	< 0.050	0.64	0.59	0.21	0.099 J	0.12
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.0089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.0011	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0051 J	< 0.00073	0.0031 J	0.012 J	0.0058 J	0.0032 J	0.0029 J	0.0069 J	0.055	0.11	0.0061 J	0.0092 J	0.0062 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	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0073 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.534 U	0.692 U	0.415 U	0.826 U	0.337 U	0.298 U	0.610 U	0.0465 U	0.785 U	0.668 U	0.831 U	1.71	0.846 U
SELENIUM, TOTAL	mg/L	< 0.0014	0.0064	0.0029 J	0.041	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0016 J	< 0.0014	0.0066	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00057 J	< 0.0018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00028 J	< 0.00018	0.00032 J	< 0.00018	< 0.00018

- Notes:
1. mg/L - milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. S.U. - Standard Units
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 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.

TABLE 5C
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - January 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS												
		B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D
		1/25/2022	1/20/2022	1/25/2022	1/21/2022	1/27/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/21/2022	1/26/2022	1/27/2022	1/24/2022
Appendix III														
BORON, TOTAL	mg/L	2.3	0.28	0.70	0.32	2.7	2.7	3.6	3.7	0.12	0.24	1.4	2.7	0.24
CALCIUM, TOTAL	mg/L	54.9	18.6	36.4	40.8	105	96	141	198	31.9	49.9	49.7	86.9	163
CHLORIDE, TOTAL	mg/L	8.7	5.0	9.9	2.4	8.8	9.4	14.7	19.8	4.9	11.3	9.0	10.4	7.8
FLUORIDE, TOTAL	mg/L	0.12	< 0.050	< 0.050	< 0.050	< 0.050	0.30	0.41	0.088 J	0.13	< 0.050	< 0.050	0.062 J	0.28
pH	S.U.	6.35	6.48	5.07	5.56	5.50	4.50	4.74	6.52	6.52	5.23	5.87	5.33	6.48
SULFATE, TOTAL	mg/L	240	< 0.500	363	106	371	305	477	531	18.4	344	144	231	423
TOTAL DISSOLVED SOLIDS	mg/L	482	129	668	236	654	572	766	930	139	638	290	459	806
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00082 J	< 0.00078	0.001 J
ARSENIC, TOTAL	mg/L	< 0.0011	0.0030 J	0.0030 J	0.0014 J	< 0.0011	0.0015 J	0.0020 J	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0035 J
BARIUM, TOTAL	mg/L	0.021	0.13	0.026	0.024	0.018	0.016	0.021	0.020	0.035	0.023	0.062	0.022	0.024
BERYLLIUM, TOTAL	mg/L	< 0.000054	< 0.000054	0.0021	0.00039 J	0.0019	0.018	0.017	0.0017	0.000068 J	0.00053	0.000079 J	0.0011	0.0012
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	0.00072	0.0003 J	0.0036	0.0010	0.00079	0.00055	< 0.00011	0.00059	0.00011 J	0.00091	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0034 J	< 0.0011	< 0.0011	0.0011 J	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.013	< 0.00039	0.0039 J	0.011	0.0038 J	0.071	0.064	0.003 J	< 0.00039	0.034	0.0028 J	0.014	0.10
FLUORIDE, TOTAL	mg/L	0.12	< 0.050	< 0.050	< 0.050	< 0.050	0.30	0.41	0.088 J	0.13	< 0.050	< 0.050	0.062 J	0.28
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.0022	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.00073 J	< 0.00073	0.00082 J	0.0022 J	0.0066 J	0.015 J	0.013 J	0.0047 J	0.0013 J	0.0021 J	0.0098 J	0.013 J	0.036
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
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0015 J	< 0.00074	< 0.00074	< 0.00074	0.00083 J
RADIUM (226 + 228)	pCi/L	0.000 U	0.920	0.330 U	0.549 U	1.18	1.27 U	0.758 U	1.47 U	0.520 U	0.769 U	1.21	0.628 U	11.9
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	0.002 J	0.027	< 0.0014	0.0039 J	0.0063	0.0015 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 method detection limit.
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.

TABLE 5C
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - January 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS							
		B-106D	B-107D	B-108D	B-109D	B-111D	B-115D	B-120D	B-122D
		1/25/2022	1/24/2022	1/24/2022	1/20/2022	1/24/2022	1/20/2022	1/20/2022	6/6/2022
Appendix III									
BORON, TOTAL	mg/L	1.2	12.3	6.8	0.6	0.49	0.55	1.9	0.2
CALCIUM, TOTAL	mg/L	40	89.9	88.2	40	107	83.6	158	48.3
CHLORIDE, TOTAL	mg/L	7.4	12.8	32.9	3.7	30.6	15.8	6	18.4
FLUORIDE, TOTAL	mg/L	< 0.05	< 0.05	< 0.05	0.11	0.38	0.59	< 0.05	0.2
pH	S.U.	5.84	6.05	5.99	6.43	7.11	5.77	5.28	6.02
SULFATE, TOTAL	mg/L	132	276	277	93.1	238	293	475	97.7
TOTAL DISSOLVED SOLIDS	mg/L	295	552	502	309	566	553	816	307
Appendix IV									
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0026 J	0.0022 J	0.0027 J	0.0016 J	< 0.0022
BARIIUM, TOTAL	mg/L	0.02	0.092	0.056	0.047	0.038	0.015	0.025	0.039
BERYLLIUM, TOTAL	mg/L	0.00011 J	< 0.000054	< 0.000054	0.000071 J	< 0.000054	0.011	0.0011	0.00024 J
CADMIUM, TOTAL	mg/L	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00029 J	0.00098	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	< 0.00039	0.00088 J	0.00061 J	< 0.00039	0.00041 J	0.24	0.0045 J	0.006
FLUORIDE, TOTAL	mg/L	< 0.050	< 0.050	< 0.050	0.11	0.38	0.59	< 0.050	0.2
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0055 J	0.015 J	0.014 J	0.014 J	0.026 J	0.081	0.079	0.013
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	0.0012 J	0.0052 J	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.454 U	1.14 U	0.812 U	16.2	5.68	9.86	1.21 U	13.1
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0022 J	0.0021 J	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 method detection limit.
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.

TABLE 5D
ASSESSMENT MONITORING ANALYTICAL DATA SUMMARY
Additional Sampling - January 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL SAMPLING									
		B-90	B-91	B-95	B-96	B-99	B-116D	B-117D	B-118	B-119D	B-123D
		1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/19/2022	1/19/2022	1/19/2022	1/19/2022	6/6/2022
Appendix III											
BORON, TOTAL	mg/L	3.2	3.6	2	3.7	2.7	< 0.0086	< 0.0086	< 0.0086	0.012 J	0.55
CALCIUM, TOTAL	mg/L	--	--	--	--	--	10.7	9.7	5.1	16.1	90.4
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	2.6	5	2.8	3.8	13.2
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	< 0.05	0.058 J	< 0.05	0.099 J	0.48
pH	S.U.	5.45	5.29	5.33	5.01	5.67	6.04	6.02	6.01	6.61	6.48
SULFATE, TOTAL	mg/L	--	--	--	--	--	0.73 J	21.5	1.1	31.1	175
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	93	129	81	145	602
Appendix IV											
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	< 0.00078	< 0.00078	0.002 J	0.0019 J	< 0.00078
ARSENIC, TOTAL	mg/L	--	--	--	--	--	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0022
BARIUM, TOTAL	mg/L	--	--	--	--	--	0.019	0.047	0.025	0.0047 J	0.0280
BERYLLIUM, TOTAL	mg/L	--	--	--	--	--	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.002
CADMIUM, TOTAL	mg/L	--	--	--	--	--	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	--	--	--	--	--	< 0.0011	< 0.0011	0.0015 J	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	--	--	--	--	--	< 0.00039	< 0.00039	< 0.00039	0.00066 J	0.068
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	< 0.050	0.058 J	< 0.050	0.099 J	0.48
LEAD, TOTAL	mg/L	--	--	--	--	--	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	--	--	--	--	--	0.0061 J	0.0085 J	0.0027 J	0.0031 J	0.031
MERCURY, TOTAL	mg/L	--	--	--	--	--	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	--	--	--	--	--	< 0.00074	< 0.00074	0.0056 J	0.02	0.0017 J
RADIUM (226 + 228)	pCi/L	--	--	--	--	--	1.04	0.125 U	0.832 U	0.858 U	2.08
SELENIUM, TOTAL	mg/L	--	--	--	--	--	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	--	--	--	--	--	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

1. mg/L - Milligrams per Liter; pCi/L - picocuries per Liter; S.U. - Standard Units.
2. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
3. 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.
4. 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.

TABLE 6A
SURFACE WATER ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2021
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES						
		CR+0.4	CR+0.2	Dewatering Downstream	Dewatering Upstream	CR-0.1	CR-0.2	CR-0.5
		9/7/2021	9/7/2021	9/7/2021	9/7/2021	9/7/2021	9/7/2021	9/7/2021
Appendix III								
Boron	mg/L	< 0.040	< 0.040	< 0.040	0.073	< 0.040	0.046	< 0.040
Calcium	mg/L	6.7	6.6	7.3	6.7	6.6	6.6	6.5
Chloride	mg/L	9.9	9.7	9.8	9.9	9.8	9.8	9.6
Fluoride	mg/L	0.14	0.14	0.14	0.14	0.14	0.13	0.14
Sulfate	mg/L	7.0	6.4	10.4	6.5	8.0	7.3	6.3
Total Dissolved Solids	mg/L	77.0	73.0	83.0	82.0	78.0	77.0	75.0
Appendix IV								
Arsenic	mg/L	< 0.0050	< 0.0050	--	--	--	< 0.0050	< 0.0050
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Molybdenum	mg/L	< 0.010	< 0.010	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	< 0.0050	< 0.0050
Major Ions								
Alkalinity, Total as CaCO ₃	mg/L	26.6	26.9	26.4	28.0	26.8	27.5	27.1
Alkalinity, Bicarbonate (CaCO ₃)	mg/L	26.6	26.9	26.4	28.0	26.8	27.5	27.1
Magnesium	mg/L	2.9	2.7	2.9	2.8	2.7	2.8	2.6
Potassium	mg/L	3.4	3.3	3.2	3.4	3.2	3.3	3.1
Sodium	mg/L	10.0	9.9	9.6	10.1	9.4	9.7	9.2

Notes:

mg/L = milligrams per liter; ug/L - micrograms per liter; S. U. - Standard Units

< indicates the substance was not detected above the analytical reporting limit (RL). The value displayed is the RL.

"--" = analysis was not performed

TABLE 6B
SURFACE WATER ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - January 2022
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES						
		CR+0.4	CR+0.2	Dewatering Downstream	Dewatering Upstream	CR-0.1	CR-0.2	CR-0.5
		1/25/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022
Appendix III								
Boron	mg/L	< 0.040	0.062	0.070	< 0.040	< 0.040	< 0.040	0.046
Calcium	mg/L	5.3	7.8	7.7	5.1	6.0	5.1	6.6
Chloride	mg/L	8.1	10.0	11.4	7.8	9.5	7.9	8.2
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulfate	mg/L	5.5	9.3	10.4	4.7	7.0	4.7	9.3
Total Dissolved Solids	mg/L	55.0	63.0	83.0	59.0	65.0	61.0	59.0
Appendix IV								
Arsenic	mg/L	< 0.0050	--	--	--	--	< 0.0050	< 0.0050
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Molybdenum	mg/L	< 0.010	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	< 0.0050	< 0.0050
Major Ions								
Alkalinity, Total as CaCO ₃	mg/L	23.4	24.2	25.8	22.4	24.4	20.4	23.3
Alkalinity, Bicarbonate (CaCO ₃)	mg/L	23.4	24.2	25.8	22.4	24.4	20.4	23.3
Magnesium	mg/L	2.0	2.5	2.9	1.9	2.3	1.9	2.1
Potassium	mg/L	2.8	2.8	3.7	2.8	3.1	2.8	2.8
Sodium	mg/L	7.7	8.9	10.7	7.4	8.3	7.4	7.5

Notes:

mg/L = milligrams per liter; ug/L - micrograms per liter; S. U. - Standard Units

< indicates the substance was not detected above the analytical reporting limit (RL). The value displayed is the RL.

"--" = analysis was not performed

TABLE 7
SUMMARY OF BACKGROUND LEVELS AND GWPS
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Analyte	Units	Maximum Contaminant Level (MCL)	Rule Specified Limit (RSL)	Site Specific Background September 2021 ^[1]	Site Specific Background January 2022 ^[1]	GWPS ^[2] January 2022
Antimony	mg/L	0.006	--	0.003 ^[3]	0.003 ^[3]	0.006
Arsenic	mg/L	0.01	--	0.005 ^[3]	0.005 ^[3]	0.01
Barium	mg/L	2	--	0.19	0.19	2
Beryllium	mg/L	0.004	--	0.0009	0.0009	0.004
Cadmium	mg/L	0.005	--	0.0005 ^[3]	0.0005 ^[3]	0.005
Chromium	mg/L	0.1	--	0.005 ^[3]	0.005 ^[3]	0.1
Cobalt	mg/L	NA	0.006	0.032	0.032	0.032
Fluoride	mg/L	4	--	0.42	0.42	4
Lead	mg/L	NA	0.015	0.001 ^[3]	0.001 ^[3]	0.015
Lithium	mg/L	NA	0.04	0.03 ^[3]	0.03 ^[3]	0.04
Mercury	mg/L	0.002	--	0.0002 ^[3]	0.0002 ^[3]	0.002
Molybdenum	mg/L	NA	0.1	0.041	0.041	0.1
Radium (226 + 228)	pCi/L	5	--	5.61	4.98	5.00
Selenium	mg/L	0.05	--	0.005 ^[3]	0.005 ^[3]	0.05
Thallium	mg/L	0.002	--	0.001 ^[3]	0.001 ^[3]	0.002

Notes:

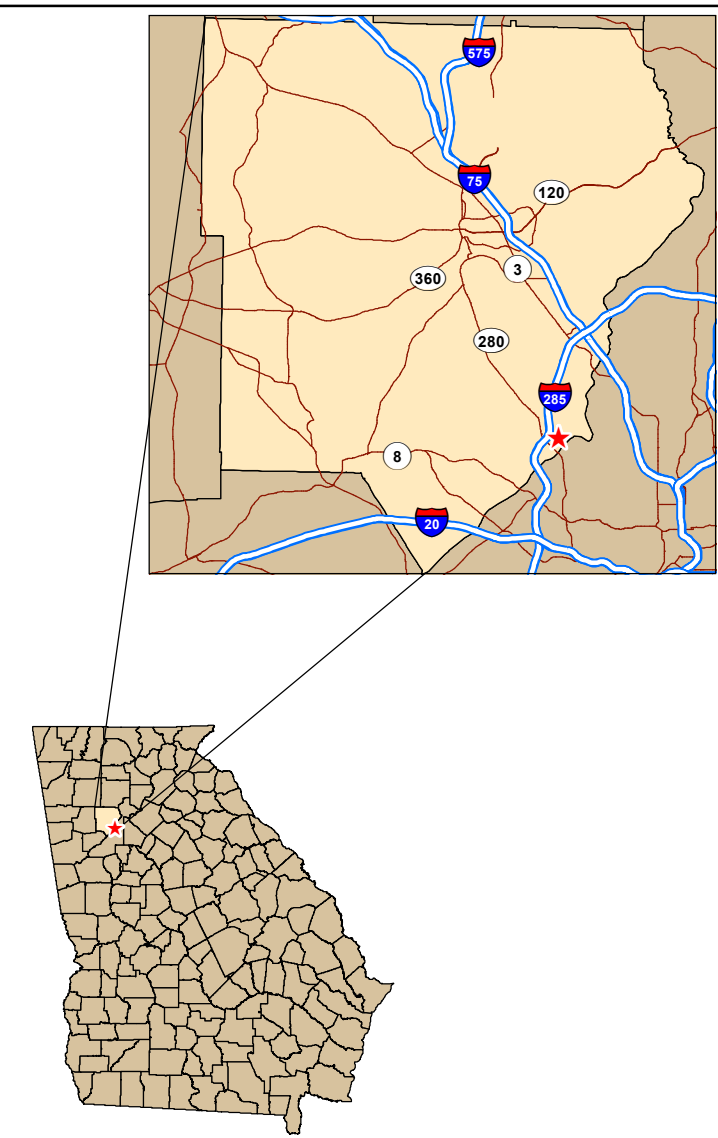
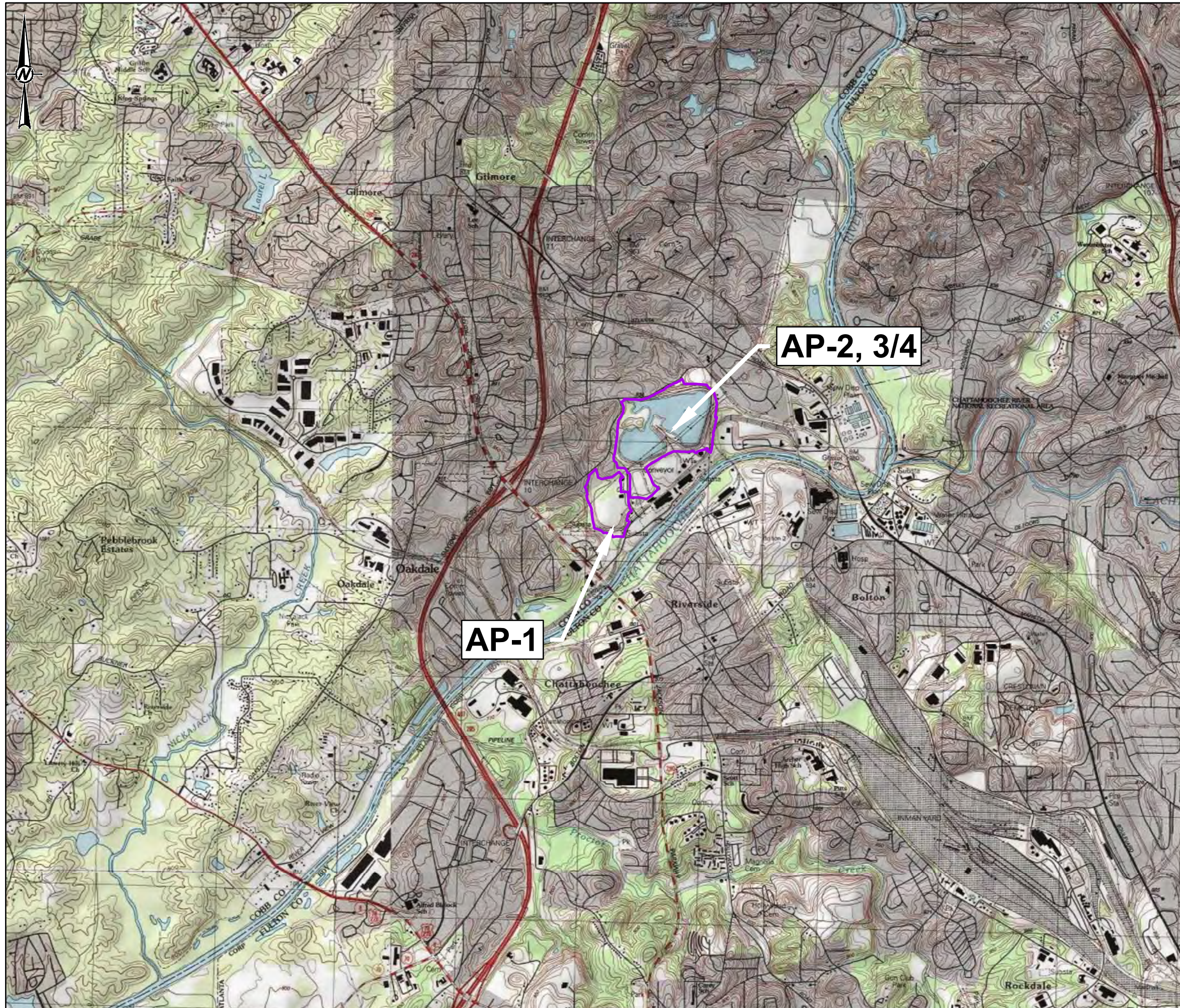
mg/L = milligrams per liter; pCi/L = picocuries per liter; NA = Not Available

[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 or RSL, (ii) where the MCL or RSL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL or RSL.

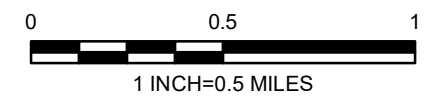
[3] The background tolerance limit (TL) used to evaluate GWPS for this analyte equals the laboratory specified reporting limit (RL). Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used when the data set contains greater than 50% non-detect 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



REFERENCE

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CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON



PROJECT
 2022 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE LOCATION MAP

CONSULTANT	YYYY-MM-DD	2022-4-26
wsp GOLDER	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DP
	REVIEWED/APPROVED	RPK



LEGEND

- EXISTING CONTOURS (SEE REFERENCE 2)
- PROPERTY BOUNDARY (SEE REFERENCE 1)
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- FINAL CLOSURE CCR LIMITS
- PERMIT BOUNDARY
- UPGRADIENT WELL
- AP-1 MONITORING WELL
- AP-2, 3/4 MONITORING WELL
- PIEZOMETER
- GOLDER 2017 BORINGS
- GOLDER 2021 PIEZOMETERS (SEE REFERENCE 3)
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF FEBRUARY 28, 2022.

NOTES

- EXISTING TOPOGRAPHIC CONTOUR INTERVAL = 1 FOOT.
- CLOSURE ACTIVITIES FOR AP-1 WERE INITIATED IN JANUARY 2016 AND FINAL COVER CONSTRUCTION ACTIVITIES WERE COMPLETED IN Q1 2017. COMPLETION OF FINAL POST COVER CONSTRUCTION ACTIVITIES AND IMPROVEMENTS INCLUDING A PLANNED BARRIER WALL AT AP-1 ARE ANTICIPATED BY 2023, PENDING PERMIT ISSUANCE. CLOSURE ACTIVITIES FOR AP-2 WERE INITIATED IN JANUARY 2016. AP-2 CLOSURE ACTIVITIES CONSISTED OF CLOSURE BY REMOVAL OF CCR, WHERE CCR REMOVED FROM AP-2 WAS PLACED IN THE ADJACENT UNITS AP-1 AND AP-3. CLOSURE CONSTRUCTION ACTIVITIES AT AP-2 WERE COMPLETED IN Q1 OF 2017, AND BACKFILL DEVELOPMENT OF AP-2 WAS STARTED IN 2020. AP-2 CLOSURE CERTIFICATION WAS COMPLETE IN OCTOBER 2021. CLOSURE ACTIVITIES FOR AP-3 AND AP-4 WERE INITIATED IN JANUARY 2016. AP-3 AND AP-4 ARE CURRENTLY UNDERGOING CLOSURE AS COMBINED UNIT AP-3/4, AND CLOSURE CONSTRUCTION ACTIVITIES ARE EXPECTED TO BE COMPLETE IN 2022.

REFERENCES


- APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).
- THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 09-07-2018.
- SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020 / 2021.
- COORDINATES SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET); ELEVATIONS DISPLAY IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (FEET NAVD88).
- AERIAL IMAGERY SOURCE: GOOGLE EARTH © PRO 2010, IMAGE DATED 09/5/2019. IMAGE GEORECTIFIED BY GOLDER AND INTENDED FOR INDICATIVE PURPOSES ONLY.

CLIENT
GEORGIA POWER COMPANY
 PLANT MCDONOUGH - ATKINSON

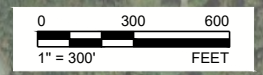


PROJECT
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTIONS REPORT ASH POND 2 AND ASH POND 3/4

TITLE
PLANT MCDONOUGH CCR REMOVAL AREA

CONSULTANT	YYYY-MM-DD	2021/07/21
	DESIGNED	CCP
	PREPARED	CRP
	CHECKED	DLP
	REVIEWED / APPROVED	GLH

PROJECT NO. 1777449 REV. FIGURE 2



1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3S D

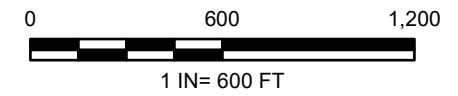


- LEGEND**
- AP-1 MONITORING WELL
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - ASSESSMENT MONITORING WELLS
 - PIEZOMETER
 - DEWATERING WELL
 - SURFACE WATER MONITORING LOCATION
 - STAFF GAUGE
 - PROPERTY BOUNDARY
 - PERMIT BOUNDARY

NOTES
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

- AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
- COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
- MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH

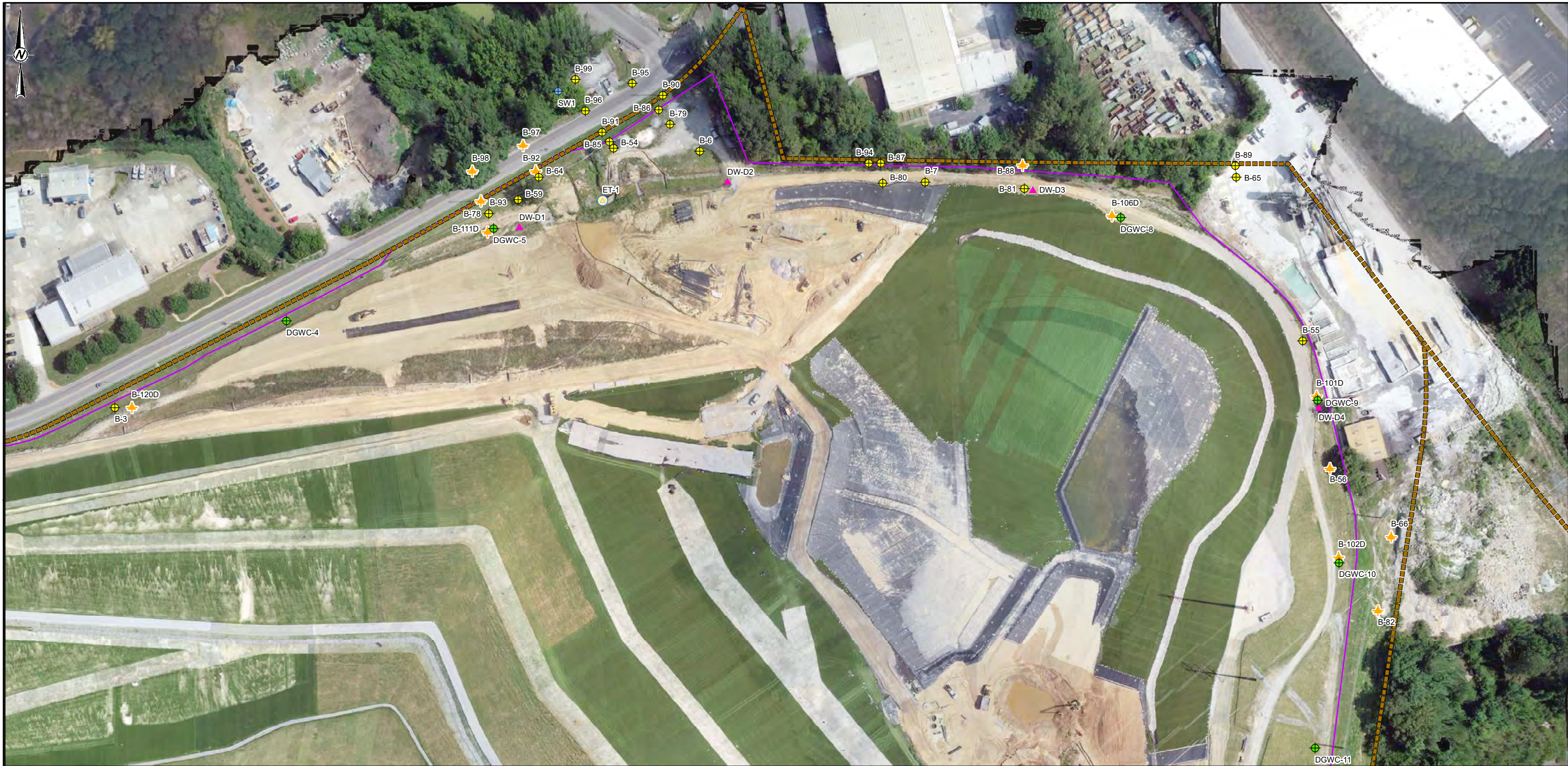
PROJECT
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4



TITLE
MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP

CONSULTANT	YYYY-MM-DD	2022-07-11
	PREPARED	SEB
	DESIGN	DLP
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

ALL MEASUREMENTS ARE SHOWN. THIS SHEET HAS BEEN MODIFIED FROM ANS.B



- LEGEND**
- ◆ AP-1 MONITORING WELL
 - ◆ AP-2, 3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ★ ASSESSMENT MONITORING WELLS
 - ⊕ PIEZOMETER
 - ▲ DEWATERING WELL
 - ⊕ SURFACE WATER MONITORING LOCATION
 - ⊙ STAFF GUAGE
 - PROPERTY BOUNDARY
 - PERMIT BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
GEORGIA POWER COMPANY
PLANT McDONOUGH

PROJECT
2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
**(INSET) MONITORING WELL, PIEZOMETER AND SURFACE WATER
LOCATION MAP**

CONSULTANT

YYYY-MM-DD	7/18/2022
PREPARED	SEB
DESIGN	DAH
CHECKED	TR
REVIEW/APPROVED	RPK

PROJECT NO. CONTROL REV. FIGURE
166849621 0 3A

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS13



LEGEND

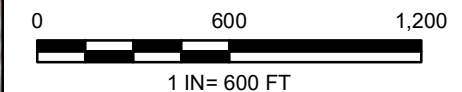
- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- PIEZOMETER
- ▲ DEWATERING WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD)
- SURFACE WATER STREAM
- - - PERMIT BOUNDARY
- - - PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 5-FOOT CONTOUR
- EXISTING TOPOGRAPHY 1-FOOT CONTOUR

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 27, 2021 BY GOLDBER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
4. WELLS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 04, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH-ATKINSON

PROJECT
 2022 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP – OCTOBER 27, 2021

CONSULTANT	YYYY-MM-DD	2021-10-29
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 4A



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



- LEGEND**
- ◆ AP-1 MONITORING WELL
 - ◆ AP-2,3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ▲ ASSESSMENT MONITORING WELLS
 - ◆ PIEZOMETER
 - ▲ DEWATERING WELL
 - APPROXIMATE GROUNDWATER FLOW DIRECTION
 - GROUNDWATER SURFACE CONTOUR (FT-NAVD)
 - EXISTING TOPOGRAPHY 10-FOOT CONTOUR
 - EXISTING TOPOGRAPHY 2-FOOT CONTOUR
 - SURFACE WATER STREAM
 - PERMIT BOUNDARY
 - PROPERTY BOUNDARY

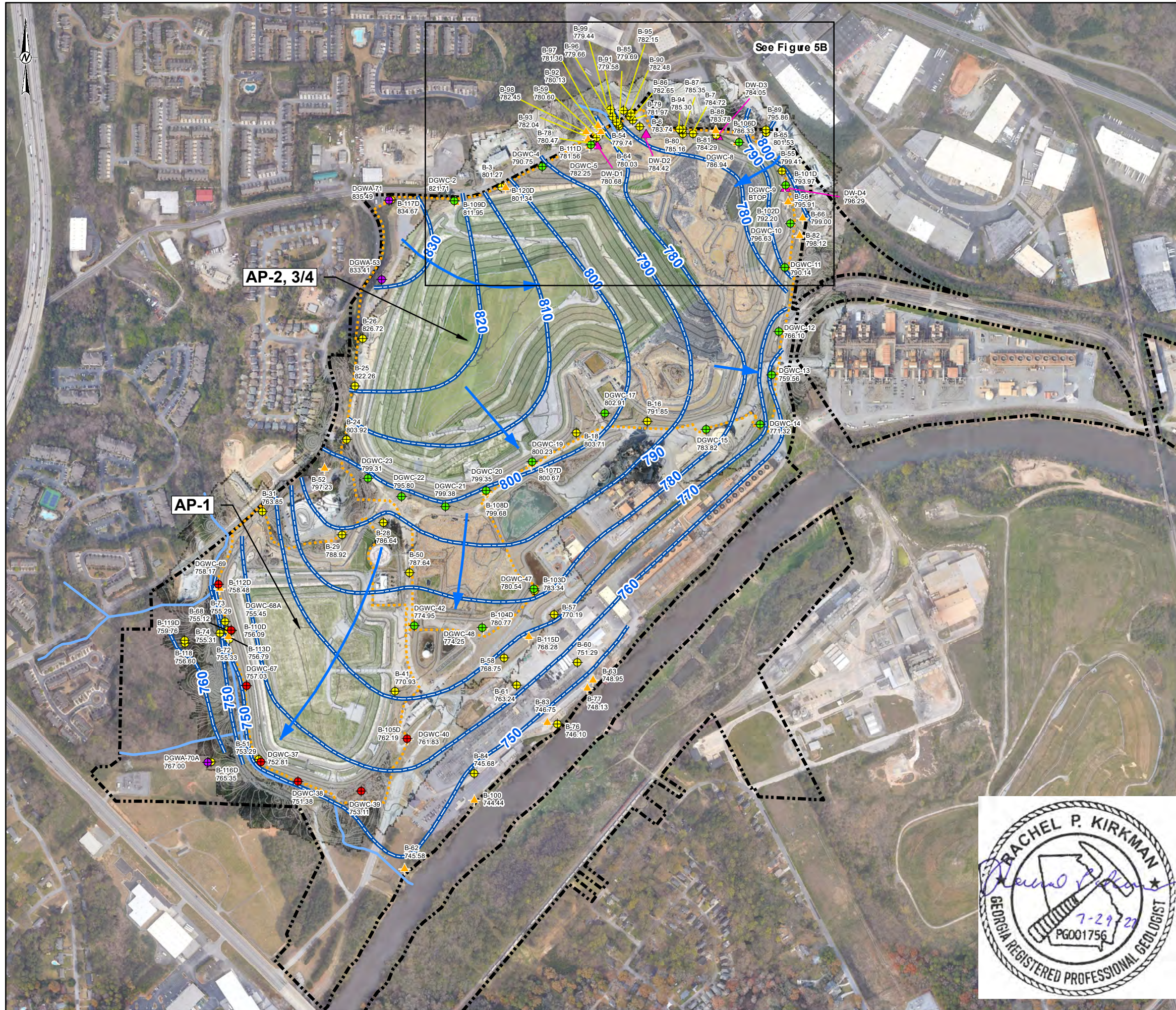
- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 27, 2021 BY GOLDER ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
 4. WELLS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT			
GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON			
PROJECT			
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4			
TITLE			
(INSET) SITE POTENTIOMETRIC MAP OCTOBER 27, 2021			
CONSULTANT		YYYY-MM-DD 2/10/2022	
		PREPARED SEB	
		DESIGN SEB	
		CHECKED DLP	
		REVIEW/APPROVED RPK	
PROJECT NO. 166849621	CONTROL	REV. 0	FIGURE 4B

VERTICAL MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS18



LEGEND

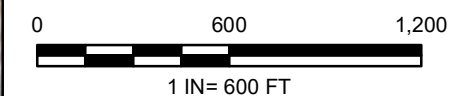
- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ▲ DEWATERING WELL
- ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- SURFACE WATER STREAM
- PERMIT BOUNDARY
- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT CONTOUR
- EXISTING TOPOGRAPHY 2-FOOT CONTOUR

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 18, 2022 BY GOLDER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.
5. BTOP= BELOW TOP OF PUMP.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY.



CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON

PROJECT
 2022 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

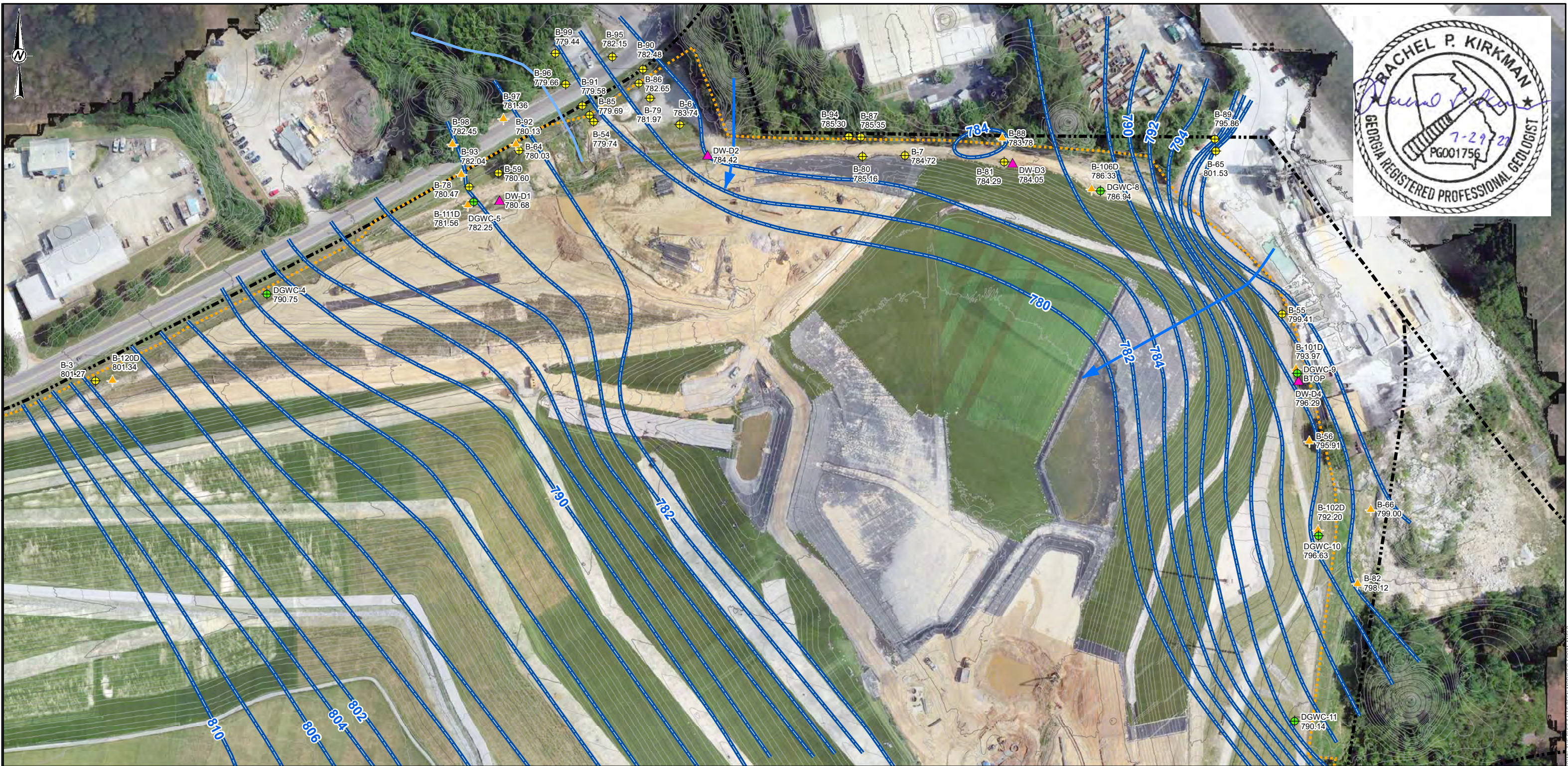
TITLE
SITE POTENTIOMETRIC MAP – JANUARY 18, 2022

CONSULTANT	YYYY-MM-DD	2022-02-11
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 5A



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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- PIEZOMETER
- ▲ DEWATERING WELL
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- SURFACE WATER STREAM
- - - PERMIT BOUNDARY
- - - PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT CONTOUR
- EXISTING TOPOGRAPHY 2-FOOT CONTOUR

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 18, 2022 BY GOLDER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.
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REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



<p>CLIENT GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON PROJECT 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4 TITLE (INSET) SITE POTENTIOMETRIC MAP JANUARY 18, 2022 CONSULTANT</p>																
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%; text-align: center;">YYYY-MM-DD</td> <td style="width: 20%; text-align: center;">7/18/2022</td> </tr> <tr> <td></td> <td style="text-align: center;">PREPARED</td> <td style="text-align: center;">SEB</td> </tr> <tr> <td></td> <td style="text-align: center;">DESIGN</td> <td style="text-align: center;">SEB</td> </tr> <tr> <td></td> <td style="text-align: center;">CHECKED</td> <td style="text-align: center;">DLP</td> </tr> <tr> <td></td> <td style="text-align: center;">REVIEW/APPROVED</td> <td style="text-align: center;">RPK</td> </tr> </table>		YYYY-MM-DD	7/18/2022		PREPARED	SEB		DESIGN	SEB		CHECKED	DLP		REVIEW/APPROVED	RPK	
	YYYY-MM-DD	7/18/2022														
	PREPARED	SEB														
	DESIGN	SEB														
	CHECKED	DLP														
	REVIEW/APPROVED	RPK														
<p>PROJECT NO. CONTROL 166849621</p>	<p>REV. 0</p>	<p>FIGURE 5B</p>														

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THIS SHEET HAS BEEN MODIFIED FROM PANS 18

APPENDIX A

Field Data Forms and Instrument Calibration Forms

APPENDIX A

Field Data Forms September 2021

Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:28:47 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWA-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.84 ft Total Depth: 36.84 ft Initial Depth to Water: 13.75 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 31 ft Estimated Total Volume Pumped: 22.71 L Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

DGWA-53 purged dry. and was sampled following recovery after 24-hours.

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	
9/9/2021 12:28 PM	00:00	6.41 pH	24.27 °C	197.99 µS/cm	1.50 mg/L	4.50 NTU	14.7 mV	14.60 ft	100.00 ml/min
9/9/2021 12:29 PM	01:00	6.41 pH	23.38 °C	198.00 µS/cm	1.41 mg/L	4.50 NTU	16.7 mV	14.60 ft	100.00 ml/min
9/9/2021 12:30 PM	02:00	6.40 pH	22.38 °C	200.14 µS/cm	1.37 mg/L	4.50 NTU	16.1 mV	14.60 ft	100.00 ml/min

Samples

Sample ID:	Description:
DGWA-53	

Low-Flow Test Report:

Test Date / Time: 9/9/2021 2:36:19 PM

Project: Plant McDonough (4)

Operator Name: D Fulton

Location Name: DGWA-70A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.41 ft Total Depth: 62.41 ft Initial Depth to Water: 40.75 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 57 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.82 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 84

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	
9/9/2021 2:36 PM	00:00	5.53 pH	21.22 °C	62.61 µS/cm	5.67 mg/L	1.24 NTU	153.9 mV	41.53 ft	350.00 ml/min
9/9/2021 2:41 PM	05:00	5.49 pH	18.52 °C	63.87 µS/cm	4.83 mg/L	0.36 NTU	98.2 mV	41.55 ft	300.00 ml/min
9/9/2021 2:46 PM	10:00	5.49 pH	18.48 °C	66.22 µS/cm	4.85 mg/L	0.54 NTU	91.9 mV	41.57 ft	300.00 ml/min
9/9/2021 2:51 PM	15:00	5.50 pH	18.21 °C	67.21 µS/cm	4.88 mg/L	0.62 NTU	90.6 mV	41.57 ft	300.00 ml/min
9/9/2021 2:56 PM	20:00	5.50 pH	18.30 °C	67.29 µS/cm	4.91 mg/L	0.65 NTU	90.7 mV	41.57 ft	300.00 ml/min

Samples

Sample ID:	Description:
DGWA-70A	

Low-Flow Test Report:

Test Date / Time: 9/8/2021 12:55:50 PM

Project: Plant McDonough (2)

Operator Name: Erik Rheams

Location Name: DGWA-71 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.79 ft Total Depth: 47.79 ft Initial Depth to Water: 27.76 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 42.79 ft Estimated Total Volume Pumped: 22990 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.46 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/8/2021 12:55 PM	00:00	7.67 pH	32.77 °C	0.00 µS/cm	6.32 mg/L	2.06 NTU	-47.1 mV	27.76 ft	220.00 ml/min
9/8/2021 1:00 PM	05:00	6.25 pH	24.97 °C	0.00 µS/cm	6.91 mg/L	2.17 NTU	-632.9 mV	28.22 ft	220.00 ml/min
9/8/2021 1:05 PM	10:00	6.08 pH	22.47 °C	0.00 µS/cm	6.37 mg/L	2.27 NTU	-283.1 mV	28.22 ft	220.00 ml/min
9/8/2021 1:10 PM	15:00	6.13 pH	21.45 °C	0.00 µS/cm	6.51 mg/L	1.45 NTU	93.6 mV	28.22 ft	220.00 ml/min
9/8/2021 1:15 PM	20:00	5.81 pH	20.07 °C	81.38 µS/cm	3.40 mg/L	1.62 NTU	192.2 mV	28.22 ft	220.00 ml/min
9/8/2021 1:20 PM	25:00	5.75 pH	19.58 °C	78.19 µS/cm	3.00 mg/L	2.74 NTU	176.0 mV	28.22 ft	220.00 ml/min
9/8/2021 1:25 PM	30:00	5.74 pH	19.44 °C	76.03 µS/cm	2.01 mg/L	3.54 NTU	163.5 mV	28.22 ft	220.00 ml/min
9/8/2021 1:45 PM	49:30	5.74 pH	19.51 °C	73.59 µS/cm	3.91 mg/L	2.32 NTU	131.9 mV	28.22 ft	220.00 ml/min
9/8/2021 1:50 PM	54:30	5.73 pH	19.54 °C	68.82 µS/cm	5.72 mg/L	1.99 NTU	146.8 mV	28.22 ft	220.00 ml/min
9/8/2021 1:55 PM	59:30	5.74 pH	19.63 °C	76.32 µS/cm	3.70 mg/L	3.55 NTU	140.8 mV	28.22 ft	220.00 ml/min
9/8/2021 2:00 PM	01:04:30	5.74 pH	19.46 °C	66.12 µS/cm	2.02 mg/L	4.23 NTU	137.9 mV	28.22 ft	220.00 ml/min
9/8/2021 2:05 PM	01:09:30	5.75 pH	20.13 °C	79.94 µS/cm	1.74 mg/L	4.01 NTU	132.0 mV	28.22 ft	220.00 ml/min
9/8/2021 2:10 PM	01:14:30	5.75 pH	20.12 °C	80.41 µS/cm	3.16 mg/L	3.28 NTU	130.5 mV	28.22 ft	220.00 ml/min
9/8/2021 2:15 PM	01:19:30	5.74 pH	20.39 °C	79.37 µS/cm	2.43 mg/L	3.01 NTU	127.3 mV	28.22 ft	220.00 ml/min
9/8/2021 2:20 PM	01:24:30	5.76 pH	20.39 °C	76.16 µS/cm	1.60 mg/L	2.81 NTU	124.9 mV	28.22 ft	220.00 ml/min

9/8/2021 2:25 PM	01:29:30	5.76 pH	20.77 °C	78.64 µS/cm	1.70 mg/L	3.27 NTU	127.3 mV	28.22 ft	220.00 ml/min
9/8/2021 2:30 PM	01:34:30	5.75 pH	20.84 °C	78.13 µS/cm	1.42 mg/L	4.50 NTU	160.1 mV	28.22 ft	220.00 ml/min
9/8/2021 2:35 PM	01:39:30	5.76 pH	20.71 °C	75.78 µS/cm	1.35 mg/L	2.70 NTU	131.9 mV	28.22 ft	220.00 ml/min
9/8/2021 2:40 PM	01:44:30	5.76 pH	20.69 °C	77.38 µS/cm	1.36 mg/L	1.88 NTU	128.8 mV	28.22 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:56:42 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.42 ft Total Depth: 52.42 ft Initial Depth to Water: 29.39 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 4992 ml Flow Cell Volume: 90 ml Final Flow Rate: 320 ml/min Final Draw Down: 0.76 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/9/2021 12:56 PM	00:00	6.29 pH	26.10 °C	345.41 µS/cm	4.06 mg/L	1.31 NTU	100.9 mV	29.39 ft	320.00 ml/min
9/9/2021 1:01 PM	05:00	6.02 pH	20.87 °C	355.17 µS/cm	0.67 mg/L	3.52 NTU	92.3 mV	30.11 ft	320.00 ml/min
9/9/2021 1:06 PM	10:00	6.00 pH	20.70 °C	355.33 µS/cm	0.25 mg/L	4.10 NTU	84.6 mV	30.15 ft	320.00 ml/min
9/9/2021 1:07 PM	10:36	5.99 pH	20.69 °C	359.82 µS/cm	0.25 mg/L	4.10 NTU	77.4 mV	30.15 ft	320.00 ml/min
9/9/2021 1:12 PM	15:36	6.00 pH	20.80 °C	372.41 µS/cm	0.20 mg/L	4.19 NTU	109.3 mV	30.15 ft	320.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:47:56 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.71 ft Total Depth: 46.71 ft Initial Depth to Water: 24.12 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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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	
9/10/2021 10:47 AM	00:00	6.57 pH	25.87 °C	1,364.0 µS/cm	4.04 mg/L	11.70 NTU	183.2 mV	24.12 ft	250.00 ml/min
9/10/2021 10:52 AM	05:00	5.93 pH	19.46 °C	1,631.7 µS/cm	0.78 mg/L	4.35 NTU	130.5 mV	24.40 ft	250.00 ml/min
9/10/2021 10:57 AM	10:00	5.84 pH	19.15 °C	1,747.3 µS/cm	0.59 mg/L	14.80 NTU	133.8 mV	24.42 ft	250.00 ml/min
9/10/2021 11:02 AM	15:00	5.84 pH	19.17 °C	1,761.1 µS/cm	0.51 mg/L	7.57 NTU	114.8 mV	24.42 ft	250.00 ml/min
9/10/2021 11:07 AM	20:00	5.83 pH	19.10 °C	1,768.7 µS/cm	0.42 mg/L	4.53 NTU	72.2 mV	24.42 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-4	Dup-2

Low-Flow Test Report:

Test Date / Time: 9/10/2021 2:02:23 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.23 ft Total Depth: 33.23 ft Initial Depth to Water: 11.18 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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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	
9/10/2021 2:02 PM	00:00	4.89 pH	27.99 °C	508.90 µS/cm	4.25 mg/L	14.60 NTU	251.2 mV	11.18 ft	250.00 ml/min
9/10/2021 2:07 PM	05:00	4.88 pH	20.47 °C	821.09 µS/cm	1.58 mg/L	12.10 NTU	481.4 mV	11.45 ft	250.00 ml/min
9/10/2021 2:12 PM	10:00	4.88 pH	20.22 °C	904.78 µS/cm	0.84 mg/L	15.70 NTU	552.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:17 PM	15:00	4.89 pH	20.24 °C	924.80 µS/cm	0.51 mg/L	11.00 NTU	551.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:22 PM	20:00	4.89 pH	20.13 °C	927.01 µS/cm	0.46 mg/L	6.72 NTU	550.9 mV	11.50 ft	250.00 ml/min
9/10/2021 2:27 PM	25:00	4.89 pH	20.13 °C	933.48 µS/cm	0.44 mg/L	5.28 NTU	469.7 mV	11.50 ft	250.00 ml/min
9/10/2021 2:32 PM	30:00	4.89 pH	20.15 °C	942.71 µS/cm	0.44 mg/L	4.41 NTU	551.6 mV	11.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-5	

Low-Flow Test Report:

Test Date / Time: 9/13/2021 10:25:20 AM

Project: Plant McDonough (12)

Operator Name: Erik Rheams

Location Name: DGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.33 ft Total Depth: 51.33 ft Initial Depth to Water: 37.18 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/13/2021 10:25 AM	00:00	5.20 pH	23.27 °C	403.63 µS/cm	3.87 mg/L	6.68 NTU	158.7 mV	37.18 ft	200.00 ml/min
9/13/2021 10:30 AM	05:00	5.11 pH	20.87 °C	389.61 µS/cm	2.23 mg/L	5.15 NTU	148.2 mV	37.29 ft	200.00 ml/min
9/13/2021 10:35 AM	10:00	5.07 pH	20.69 °C	391.33 µS/cm	1.56 mg/L	1.80 NTU	146.1 mV	37.32 ft	200.00 ml/min
9/13/2021 10:40 AM	15:00	5.05 pH	20.71 °C	394.32 µS/cm	1.27 mg/L	1.91 NTU	139.1 mV	37.32 ft	200.00 ml/min
9/13/2021 10:45 AM	20:00	5.04 pH	20.66 °C	396.19 µS/cm	1.16 mg/L	6.22 NTU	132.1 mV	37.32 ft	200.00 ml/min
9/13/2021 10:50 AM	25:00	5.04 pH	20.69 °C	396.09 µS/cm	0.99 mg/L	1.44 NTU	127.3 mV	37.32 ft	200.00 ml/min
9/13/2021 10:55 AM	30:00	5.04 pH	20.85 °C	397.25 µS/cm	0.87 mg/L	1.43 NTU	124.6 mV	37.32 ft	200.00 ml/min
9/13/2021 11:00 AM	35:00	5.05 pH	20.84 °C	395.76 µS/cm	0.82 mg/L	1.06 NTU	121.3 mV	37.32 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:47:02 AM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.73 ft Total Depth: 33.73 ft Initial Depth to Water: 24.2 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.96 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/10/2021 10:47 AM	00:00	3.85 pH	22.49 °C	571.30 µS/cm	7.18 mg/L	0.09 NTU	222.1 mV	24.20 ft	400.00 ml/min
9/10/2021 10:52 AM	05:00	3.96 pH	18.88 °C	635.09 µS/cm	4.53 mg/L	19.20 NTU	219.1 mV	25.16 ft	400.00 ml/min
9/10/2021 10:57 AM	10:00	3.96 pH	18.97 °C	658.87 µS/cm	3.18 mg/L	11.86 NTU	306.3 mV	25.16 ft	400.00 ml/min
9/10/2021 11:02 AM	15:00	3.97 pH	18.99 °C	660.98 µS/cm	3.03 mg/L	6.40 NTU	317.2 mV	25.16 ft	400.00 ml/min
9/10/2021 11:07 AM	20:00	3.97 pH	19.06 °C	658.91 µS/cm	2.97 mg/L	2.55 NTU	218.7 mV	25.16 ft	400.00 ml/min
9/10/2021 11:12 AM	25:00	3.97 pH	19.08 °C	656.16 µS/cm	2.90 mg/L	2.64 NTU	336.6 mV	25.16 ft	400.00 ml/min
9/10/2021 11:17 AM	30:00	3.98 pH	19.08 °C	655.04 µS/cm	2.84 mg/L	3.22 NTU	240.2 mV	25.16 ft	400.00 ml/min
9/10/2021 11:22 AM	35:00	3.98 pH	19.08 °C	653.03 µS/cm	2.78 mg/L	1.93 NTU	362.0 mV	25.16 ft	400.00 ml/min
9/10/2021 11:27 AM	40:00	3.98 pH	19.14 °C	650.98 µS/cm	2.72 mg/L	1.11 NTU	242.1 mV	25.16 ft	400.00 ml/min
9/10/2021 11:32 AM	45:00	3.98 pH	19.19 °C	649.01 µS/cm	2.66 mg/L	0.87 NTU	366.3 mV	25.16 ft	400.00 ml/min

Samples

Sample ID:	Description:
DGWC-9	FB-2

Low-Flow Test Report:

Test Date / Time: 9/10/2021 1:14:17 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.8 ft Total Depth: 47.8 ft Initial Depth to Water: 25.82 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 42.8 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.53 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Extra rads here

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	
9/10/2021 1:14 PM	00:00	5.13 pH	34.27 °C	527.60 µS/cm	5.14 mg/L	0.75 NTU	183.9 mV	25.82 ft	300.00 ml/min
9/10/2021 1:19 PM	05:00	5.08 pH	20.75 °C	645.03 µS/cm	6.18 mg/L	1.29 NTU	114.7 mV	26.30 ft	300.00 ml/min
9/10/2021 1:24 PM	10:00	5.06 pH	20.26 °C	644.79 µS/cm	6.15 mg/L	0.97 NTU	154.7 mV	26.35 ft	300.00 ml/min
9/10/2021 1:29 PM	15:00	5.05 pH	20.23 °C	647.24 µS/cm	6.10 mg/L	0.99 NTU	102.5 mV	26.35 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/9/2021 9:26:32 AM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.72 ft Total Depth: 51.72 ft Initial Depth to Water: 12.49 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 46.72 ft Estimated Total Volume Pumped: 6500 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.91 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/9/2021 9:26 AM	00:00	6.07 pH	24.30 °C	421.60 µS/cm	2.28 mg/L	4.37 NTU	127.9 mV	12.49 ft	260.00 ml/min
9/9/2021 9:31 AM	05:00	5.65 pH	20.23 °C	539.67 µS/cm	0.80 mg/L	5.25 NTU	100.4 mV	13.41 ft	260.00 ml/min
9/9/2021 9:36 AM	10:00	5.60 pH	20.05 °C	551.25 µS/cm	0.22 mg/L	7.84 NTU	105.1 mV	13.45 ft	180.00 ml/min
9/9/2021 9:41 AM	15:00	5.60 pH	20.93 °C	584.72 µS/cm	0.19 mg/L	7.69 NTU	66.8 mV	13.36 ft	200.00 ml/min
9/9/2021 9:46 AM	20:00	5.59 pH	20.42 °C	589.67 µS/cm	0.17 mg/L	5.34 NTU	79.1 mV	13.40 ft	200.00 ml/min
9/9/2021 9:51 AM	25:00	5.59 pH	20.57 °C	589.11 µS/cm	0.16 mg/L	6.12 NTU	57.3 mV	13.40 ft	200.00 ml/min
9/9/2021 9:56 AM	30:00	5.59 pH	20.72 °C	588.64 µS/cm	0.16 mg/L	4.59 NTU	54.4 mV	13.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/9/2021 1:57:57 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.24 ft Total Depth: 28.24 ft Initial Depth to Water: 8.52 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 23.24 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 90 ml Final Flow Rate: 350 ml/min Final Draw Down: 0.63 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/9/2021 1:57 PM	00:00	6.10 pH	21.37 °C	461.84 µS/cm	0.57 mg/L	70.50 NTU	37.4 mV	8.52 ft	350.00 ml/min
9/9/2021 2:02 PM	05:00	6.09 pH	20.70 °C	466.41 µS/cm	0.15 mg/L	50.50 NTU	21.9 mV	9.05 ft	350.00 ml/min
9/9/2021 2:07 PM	10:00	6.11 pH	20.57 °C	464.04 µS/cm	0.12 mg/L	20.40 NTU	15.3 mV	9.15 ft	350.00 ml/min
9/9/2021 2:12 PM	15:00	6.11 pH	20.48 °C	461.57 µS/cm	0.10 mg/L	11.89 NTU	12.4 mV	9.15 ft	350.00 ml/min
9/9/2021 2:17 PM	20:00	6.10 pH	20.39 °C	456.32 µS/cm	0.10 mg/L	7.26 NTU	16.5 mV	9.15 ft	350.00 ml/min
9/9/2021 2:22 PM	25:00	6.08 pH	20.48 °C	452.31 µS/cm	0.09 mg/L	4.54 NTU	17.4 mV	9.15 ft	350.00 ml/min
9/9/2021 2:27 PM	30:00	6.07 pH	20.43 °C	447.02 µS/cm	0.09 mg/L	4.19 NTU	14.8 mV	9.15 ft	350.00 ml/min

Samples

Sample ID:	Description:
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PURGING AND SAMPLING FORM

Project #: 166849621		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>D6WC-13</u>		Date: <u>9-9-21</u>	Water Level (ft): <u>32.44</u>	Time (WL): <u>1452</u>	
Physical Condition of Well: <u>Good</u>			Weather: <u>81°F Sunny</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>46.66</u>	Water Column (ft): <u>19.22</u>	Well Volume (gal): <u>2.32</u>		
Start Purge: <u>1455</u>	End Purge: <u>1510</u>	Top of Pump (ft): <u>38.26</u>			
Evacuation Method: <u>Low-Flow</u>			Volume Removed (L): <u>6L</u>		
Evacuation Equipment: <u>Dedicated</u>			Purging Personnel: <u>K. MinKora</u>		
SmarTroll serial #: <u>850724</u>			LaMotte serial #: <u>1510-4111</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1510</u>									400	<u>400</u>
<u>1510</u>	<u>Clear</u>	<u>no</u>	<u>5.69</u>	<u>396.69</u>	<u>4.05</u>	<u>20.93</u>	<u>137.2</u>	<u>1.00</u>	<u>32.90</u>	<u>400</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: D6WC-13 Sample Date/Time: 9-9-21/1510 Metals Date/Time: 9-9-21/1510
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 1.00
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9-9-21/1510

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

Low-Flow Test Report:

Test Date / Time: 9/9/2021 3:35:34 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.95 ft Total Depth: 37.95 ft Initial Depth to Water: 19.15 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/9/2021 3:35 PM	00:00	5.78 pH	22.80 °C	142.55 µS/cm	5.31 mg/L	3.04 NTU	139.6 mV	19.15 ft	400.00 ml/min
9/9/2021 3:40 PM	05:00	5.71 pH	20.26 °C	150.09 µS/cm	4.92 mg/L	2.18 NTU	101.7 mV	19.40 ft	400.00 ml/min
9/9/2021 3:45 PM	10:00	5.71 pH	20.04 °C	149.74 µS/cm	4.93 mg/L	2.12 NTU	95.6 mV	19.40 ft	400.00 ml/min
9/9/2021 3:50 PM	15:00	5.70 pH	20.00 °C	149.86 µS/cm	4.93 mg/L	2.02 NTU	94.0 mV	19.40 ft	400.00 ml/min

Samples

Sample ID:	Description:
DGWC-14	EB-1

Low-Flow Test Report:

Test Date / Time: 9/9/2021 1:34:06 PM

Project: Plant McDonough (6)

Operator Name: Erik Rheams

Location Name: DGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60.83 ft Total Depth: 70.83 ft Initial Depth to Water: 39.48 ft	Pump Type: dedicated Tubing Type: Polyethylene Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/9/2021 1:34 PM	00:00	5.89 pH	27.85 °C	401.38 µS/cm	2.77 mg/L	2.12 NTU	127.1 mV	39.48 ft	200.00 ml/min
9/9/2021 1:39 PM	05:00	5.85 pH	22.11 °C	431.98 µS/cm	0.74 mg/L	8.35 NTU	107.6 mV	40.69 ft	200.00 ml/min
9/9/2021 1:44 PM	10:00	5.83 pH	21.96 °C	423.94 µS/cm	0.58 mg/L	3.66 NTU	118.4 mV	40.90 ft	200.00 ml/min
9/9/2021 1:49 PM	15:00	5.83 pH	21.64 °C	424.16 µS/cm	0.49 mg/L	2.34 NTU	114.9 mV	40.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
DGWC-15	FB-1

Low-Flow Test Report:

Test Date / Time: 9/13/2021 10:34:17 AM

Project: Plant McDonough (9)

Operator Name: D Fulton

Location Name: DGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.95 ft Total Depth: 47.95 ft Initial Depth to Water: 34.07 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 9.0 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.78 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 70 s

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	
9/13/2021 10:34 AM	00:00	5.43 pH	27.73 °C	503.78 µS/cm	4.64 mg/L	9.15 NTU	150.8 mV	34.52 ft	300.00 ml/min
9/13/2021 10:39 AM	05:00	5.10 pH	20.47 °C	587.76 µS/cm	1.15 mg/L	8.52 NTU	163.4 mV	34.48 ft	300.00 ml/min
9/13/2021 10:44 AM	10:00	5.08 pH	20.04 °C	597.65 µS/cm	0.82 mg/L	7.09 NTU	129.8 mV	34.90 ft	300.00 ml/min
9/13/2021 10:49 AM	15:00	5.08 pH	19.97 °C	598.96 µS/cm	0.82 mg/L	3.90 NTU	114.1 mV	34.90 ft	300.00 ml/min
9/13/2021 10:54 AM	20:00	5.07 pH	19.95 °C	598.80 µS/cm	0.70 mg/L	2.51 NTU	103.3 mV	34.85 ft	300.00 ml/min
9/13/2021 10:59 AM	25:00	5.08 pH	19.99 °C	594.65 µS/cm	0.55 mg/L	2.07 NTU	99.2 mV	34.85 ft	300.00 ml/min
9/13/2021 11:04 AM	30:00	5.06 pH	20.03 °C	598.52 µS/cm	0.60 mg/L	2.24 NTU	99.5 mV	34.85 ft	300.00 ml/min

Samples

Sample ID:	Description:
DGWC-17	

Low-Flow Test Report:

Test Date / Time: 9/9/2021 2:53:27 PM

Project: Plant McDonough (7)

Operator Name: Erik Rheams

Location Name: DGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.25 ft Total Depth: 43.25 ft Initial Depth to Water: 24.77 ft	Pump Type: dedicated Tubing Type: Polyethylene Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 9900 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/9/2021 2:53 PM	00:00	4.83 pH	22.94 °C	724.74 µS/cm	1.80 mg/L	54.70 NTU	345.2 mV	24.77 ft	180.00 ml/min
9/9/2021 2:58 PM	05:00	4.81 pH	21.84 °C	746.52 µS/cm	0.52 mg/L	31.50 NTU	553.6 mV	24.98 ft	180.00 ml/min
9/9/2021 3:03 PM	10:00	4.81 pH	21.64 °C	745.16 µS/cm	0.38 mg/L	21.00 NTU	566.3 mV	24.98 ft	180.00 ml/min
9/9/2021 3:08 PM	15:00	4.81 pH	21.65 °C	744.14 µS/cm	0.33 mg/L	57.70 NTU	568.4 mV	24.98 ft	180.00 ml/min
9/9/2021 3:13 PM	20:00	4.82 pH	21.73 °C	740.28 µS/cm	0.34 mg/L	13.00 NTU	455.1 mV	24.98 ft	180.00 ml/min
9/9/2021 3:18 PM	25:00	4.80 pH	21.51 °C	730.44 µS/cm	0.35 mg/L	11.70 NTU	570.9 mV	24.98 ft	180.00 ml/min
9/9/2021 3:23 PM	30:00	4.81 pH	21.68 °C	724.19 µS/cm	0.33 mg/L	6.72 NTU	450.2 mV	24.98 ft	180.00 ml/min
9/9/2021 3:28 PM	35:00	4.80 pH	21.56 °C	716.03 µS/cm	0.33 mg/L	6.97 NTU	570.1 mV	24.98 ft	180.00 ml/min
9/9/2021 3:33 PM	40:00	4.81 pH	21.51 °C	712.60 µS/cm	0.31 mg/L	7.99 NTU	442.2 mV	24.98 ft	180.00 ml/min
9/9/2021 3:38 PM	45:00	4.79 pH	23.15 °C	714.39 µS/cm	0.33 mg/L	6.09 NTU	429.6 mV	24.98 ft	180.00 ml/min
9/9/2021 3:43 PM	50:00	4.83 pH	22.71 °C	690.15 µS/cm	0.45 mg/L	5.91 NTU	568.5 mV	24.98 ft	180.00 ml/min
9/9/2021 3:48 PM	55:00	4.82 pH	22.27 °C	692.04 µS/cm	0.41 mg/L	4.96 NTU	436.6 mV	24.98 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:28:20 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-20 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: 21.83 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.39 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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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	
9/10/2021 12:28 PM	00:00	4.83 pH	30.86 °C	807.66 µS/cm	3.25 mg/L	2.38 NTU	162.8 mV	21.83 ft	250.00 ml/min
9/10/2021 12:33 PM	05:00	4.72 pH	22.07 °C	890.82 µS/cm	0.24 mg/L	2.19 NTU	133.5 mV	22.84 ft	250.00 ml/min
9/10/2021 12:38 PM	10:00	4.71 pH	21.73 °C	908.91 µS/cm	0.17 mg/L	1.62 NTU	166.7 mV	23.06 ft	250.00 ml/min
9/10/2021 12:43 PM	15:00	4.69 pH	21.73 °C	896.79 µS/cm	0.14 mg/L	2.19 NTU	111.3 mV	23.20 ft	250.00 ml/min
9/10/2021 12:48 PM	20:00	4.67 pH	21.75 °C	892.33 µS/cm	0.13 mg/L	2.40 NTU	156.3 mV	23.22 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-20	

Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:13:40 PM

Project: Plant McDonough (5)

Operator Name: Erik Rheams

Location Name: DGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62 ft Total Depth: 72 ft Initial Depth to Water: 15.46 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 67 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/9/2021 12:13 PM	00:00	6.17 pH	23.03 °C	450.63 µS/cm	3.10 mg/L	0.99 NTU	165.0 mV	15.46 ft	200.00 ml/min
9/9/2021 12:18 PM	05:00	5.91 pH	21.93 °C	531.53 µS/cm	0.42 mg/L	0.70 NTU	160.2 mV	15.78 ft	200.00 ml/min
9/9/2021 12:23 PM	10:00	5.84 pH	21.33 °C	559.94 µS/cm	0.27 mg/L	0.33 NTU	172.3 mV	15.80 ft	200.00 ml/min
9/9/2021 12:28 PM	15:00	5.79 pH	21.50 °C	591.35 µS/cm	0.22 mg/L	1.57 NTU	156.6 mV	15.80 ft	200.00 ml/min
9/9/2021 12:33 PM	20:00	5.76 pH	21.51 °C	616.64 µS/cm	0.19 mg/L	0.45 NTU	113.0 mV	15.80 ft	200.00 ml/min
9/9/2021 12:38 PM	25:00	5.75 pH	21.29 °C	630.33 µS/cm	0.16 mg/L	0.95 NTU	99.0 mV	15.80 ft	200.00 ml/min
9/9/2021 12:43 PM	30:00	5.73 pH	21.53 °C	634.11 µS/cm	0.15 mg/L	1.21 NTU	9.0 mV	15.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:33:07 PM

Project: Plant McDonough (7)

Operator Name: D Fulton

Location Name: DGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.45 ft Total Depth: 63.45 ft Initial Depth to Water: 20.26 ft	Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 80s

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	
9/10/2021 12:33 PM	00:00	5.68 pH	23.34 °C	624.42 µS/cm	1.46 mg/L	1.14 NTU	94.6 mV	20.54 ft	250.00 ml/min
9/10/2021 12:38 PM	05:00	5.65 pH	20.66 °C	636.64 µS/cm	0.48 mg/L	1.20 NTU	127.7 mV	20.58 ft	250.00 ml/min
9/10/2021 12:43 PM	10:00	5.65 pH	20.53 °C	628.41 µS/cm	0.34 mg/L	0.93 NTU	200.0 mV	20.58 ft	250.00 ml/min
9/10/2021 12:48 PM	15:00	5.65 pH	20.45 °C	629.79 µS/cm	0.25 mg/L	0.86 NTU	233.2 mV	20.58 ft	250.00 ml/min
9/10/2021 12:53 PM	20:00	5.66 pH	20.52 °C	619.34 µS/cm	0.20 mg/L	0.91 NTU	239.6 mV	20.58 ft	250.00 ml/min
9/10/2021 12:58 PM	25:00	5.65 pH	20.54 °C	622.77 µS/cm	0.17 mg/L	0.78 NTU	251.8 mV	20.58 ft	250.00 ml/min

Samples

Sample ID:	Description:
DWGC-22	

Low-Flow Test Report:

Test Date / Time: 9/9/2021 11:50:24 AM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.26 ft Total Depth: 63.26 ft Initial Depth to Water: 20.43 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 6500 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.72 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/9/2021 11:50 AM	00:00	6.06 pH	21.91 °C	675.52 µS/cm	1.72 mg/L	2.81 NTU	226.4 mV	20.43 ft	300.00 ml/min
9/9/2021 11:55 AM	05:00	6.02 pH	19.77 °C	667.83 µS/cm	0.65 mg/L	2.09 NTU	146.9 mV	23.00 ft	300.00 ml/min
9/9/2021 12:00 PM	10:00	6.05 pH	19.41 °C	659.71 µS/cm	0.68 mg/L	1.75 NTU	122.9 mV	23.80 ft	300.00 ml/min
9/9/2021 12:05 PM	15:00	6.03 pH	20.30 °C	665.19 µS/cm	0.69 mg/L	2.29 NTU	89.0 mV	24.20 ft	200.00 ml/min
9/9/2021 12:10 PM	20:00	6.02 pH	20.72 °C	663.00 µS/cm	0.56 mg/L	1.97 NTU	82.2 mV	24.14 ft	200.00 ml/min
9/9/2021 12:15 PM	25:00	6.00 pH	20.78 °C	660.71 µS/cm	0.43 mg/L	2.79 NTU	62.5 mV	24.15 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/13/2021 1:12:16 PM

Project: Plant McDonough (2)

Operator Name: E. Dhondt

Location Name: DGWC-42 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.49 ft Total Depth: 52.49 ft Initial Depth to Water: 28.85 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Pump Intake From TOC: 47.49 ft Estimated Total Volume Pumped: 31915.334 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 1.0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/13/2021 1:12 PM	00:00	5.20 pH	21.77 °C	738.39 µS/cm	0.72 mg/L	12.1 NTU	71.5 mV	28.85 ft	280.00 ml/min
9/13/2021 1:14 PM	02:40	5.23 pH	22.31 °C	748.45 µS/cm	0.94 mg/L	9.50 NTU	64.6 mV	29.25 ft	280.00 ml/min
9/13/2021 1:25 PM	13:00	5.15 pH	22.04 °C	699.23 µS/cm	0.83 mg/L	8.60 NTU	44.3 mV	30.20 ft	280.00 ml/min
9/13/2021 1:30 PM	18:00	5.13 pH	21.81 °C	706.24 µS/cm	0.75 mg/L	8.25 NTU	50.2 mV	30.20 ft	280.00 ml/min
9/13/2021 1:35 PM	23:00	5.13 pH	21.59 °C	728.03 µS/cm	0.62 mg/L	8.19 NTU	56.7 mV	30.20 ft	280.00 ml/min
9/13/2021 1:40 PM	28:00	5.12 pH	21.86 °C	709.28 µS/cm	0.62 mg/L	8.02 NTU	46.7 mV	30.20 ft	280.00 ml/min
9/13/2021 1:45 PM	33:00	5.12 pH	21.82 °C	710.10 µS/cm	0.53 mg/L	7.90 NTU	46.2 mV	30.20 ft	280.00 ml/min
9/13/2021 1:50 PM	38:00	5.12 pH	21.68 °C	718.42 µS/cm	0.49 mg/L	8.03 NTU	45.9 mV	30.20 ft	280.00 ml/min
9/13/2021 1:55 PM	43:00	5.13 pH	21.69 °C	708.12 µS/cm	0.57 mg/L	7.98 NTU	53.6 mV	30.20 ft	280.00 ml/min
9/13/2021 2:00 PM	48:00	5.13 pH	21.82 °C	701.93 µS/cm	0.52 mg/L	7.21 NTU	46.7 mV	30.20 ft	280.00 ml/min
9/13/2021 2:05 PM	52:55	5.12 pH	23.69 °C	722.36 µS/cm	0.69 mg/L	2.20 NTU	49.2 mV	29.15 ft	280.00 ml/min
9/13/2021 2:10 PM	57:55	5.12 pH	26.40 °C	710.46 µS/cm	0.59 mg/L	1.88 NTU	46.6 mV	29.46 ft	160.00 ml/min
9/13/2021 2:36 PM	01:23:59	5.13 pH	37.02 °C	733.10 µS/cm	1.05 mg/L	2.04 NTU	50.9 mV	29.65 ft	160.00 ml/min
9/13/2021 2:41 PM	01:28:59	5.17 pH	27.79 °C	668.16 µS/cm	1.12 mg/L	2.72 NTU	94.1 mV	29.80 ft	160.00 ml/min
9/13/2021 2:46 PM	01:33:59	5.15 pH	22.84 °C	714.36 µS/cm	0.93 mg/L	1.65 NTU	81.2 mV	29.80 ft	160.00 ml/min
9/13/2021 2:51 PM	01:38:59	5.15 pH	22.94 °C	719.58 µS/cm	0.93 mg/L	1.94 NTU	75.3 mV	29.85 ft	160.00 ml/min

9/13/2021 2:56 PM	01:43:59	5.15 pH	22.71 °C	723.12 µS/cm	0.83 mg/L	1.94 NTU	71.4 mV	29.85 ft	160.00 ml/min
9/13/2021 3:01 PM	01:48:59	5.15 pH	22.85 °C	708.11 µS/cm	0.80 mg/L	2.65 NTU	72.4 mV	29.85 ft	160.00 ml/min
9/13/2021 3:06 PM	01:53:59	5.15 pH	22.58 °C	706.57 µS/cm	0.76 mg/L	2.65 NTU	68.8 mV	29.85 ft	160.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:23:59 AM

Project: Plant McDonough (8)

Operator Name: Erik Rheams

Location Name: DGWC-47 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.93 ft Total Depth: 31.93 ft Initial Depth to Water: 17.34 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/10/2021 10:23 AM	00:00	3.78 pH	26.51 °C	390.63 µS/cm	5.44 mg/L	5.48 NTU	256.2 mV	17.34 ft	100.00 ml/min
9/10/2021 10:28 AM	05:00	3.77 pH	24.33 °C	379.97 µS/cm	5.00 mg/L	1.47 NTU	258.9 mV	18.09 ft	100.00 ml/min
9/10/2021 10:33 AM	10:00	3.86 pH	24.02 °C	364.44 µS/cm	3.42 mg/L	1.64 NTU	266.5 mV	18.31 ft	100.00 ml/min
9/10/2021 10:38 AM	15:00	3.93 pH	23.76 °C	355.25 µS/cm	2.04 mg/L	2.06 NTU	336.6 mV	18.39 ft	100.00 ml/min
9/10/2021 10:43 AM	20:00	4.00 pH	23.66 °C	350.00 µS/cm	1.09 mg/L	3.25 NTU	342.3 mV	18.42 ft	100.00 ml/min
9/10/2021 10:48 AM	25:00	4.06 pH	23.79 °C	346.13 µS/cm	0.62 mg/L	3.21 NTU	354.0 mV	18.44 ft	100.00 ml/min
9/10/2021 10:53 AM	30:00	4.08 pH	23.71 °C	345.28 µS/cm	0.51 mg/L	2.91 NTU	346.5 mV	18.45 ft	100.00 ml/min
9/10/2021 10:58 AM	35:00	4.10 pH	23.63 °C	341.40 µS/cm	0.45 mg/L	2.50 NTU	314.6 mV	18.47 ft	100.00 ml/min

Samples

Sample ID:	Description:
DGWC-47	EB-2

Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:21:53 AM

Project: Plant McDonough (6)

Operator Name: D Fulton

Location Name: DGWC-48 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.49 ft Total Depth: 33.49 ft Initial Depth to Water: 13.24 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 4.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.54 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 75

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	
9/10/2021 10:21 AM	00:00	4.29 pH	22.80 °C	608.06 µS/cm	5.08 mg/L	0.77 NTU	244.2 mV	13.75 ft	225.00 ml/min
9/10/2021 10:26 AM	05:00	4.34 pH	20.57 °C	709.39 µS/cm	0.96 mg/L	1.11 NTU	176.4 mV	13.78 ft	125.00 ml/min
9/10/2021 10:31 AM	10:00	4.33 pH	20.51 °C	687.71 µS/cm	0.71 mg/L	0.66 NTU	221.3 mV	13.75 ft	125.00 ml/min
9/10/2021 10:36 AM	15:00	4.30 pH	20.30 °C	693.96 µS/cm	0.68 mg/L	0.61 NTU	207.4 mV	13.75 ft	125.00 ml/min
9/10/2021 10:41 AM	20:00	4.29 pH	20.26 °C	690.17 µS/cm	0.66 mg/L	0.31 NTU	291.5 mV	13.78 ft	125.00 ml/min
9/10/2021 10:46 AM	25:00	4.30 pH	20.30 °C	691.70 µS/cm	0.52 mg/L	0.21 NTU	212.2 mV	13.78 ft	125.00 ml/min
9/10/2021 10:51 AM	30:00	4.31 pH	20.31 °C	688.77 µS/cm	0.49 mg/L	0.32 NTU	208.7 mV	13.78 ft	125.00 ml/min
9/10/2021 10:56 AM	35:00	4.30 pH	20.34 °C	690.22 µS/cm	0.43 mg/L	0.54 NTU	203.1 mV	13.78 ft	125.00 ml/min

Samples

Sample ID:	Description:
DWGC-48	Dup-1

Low-Flow Test Report:

Test Date / Time: 9/13/2021 12:01:17 PM

Project: Plant McDonough (10)

Operator Name: D Fulton

Location Name: B-56 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.9 ft Total Depth: 47.9 ft Initial Depth to Water: 26.55 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 80 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 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 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 12:01 PM	00:00	4.78 pH	26.42 °C	437.86 µS/cm	1.52 mg/L	70.50 NTU	157.0 mV	26.96 ft	80.00 ml/min
9/13/2021 12:06 PM	05:00	4.72 pH	22.00 °C	467.65 µS/cm	0.50 mg/L	33.80 NTU	86.6 mV	26.98 ft	80.00 ml/min
9/13/2021 12:11 PM	10:00	4.71 pH	21.91 °C	468.02 µS/cm	0.38 mg/L	25.10 NTU	92.9 mV	26.98 ft	80.00 ml/min
9/13/2021 12:16 PM	15:00	4.70 pH	21.84 °C	468.46 µS/cm	0.43 mg/L	32.60 NTU	84.9 mV	26.98 ft	80.00 ml/min
9/13/2021 12:21 PM	20:00	4.65 pH	21.85 °C	464.88 µS/cm	0.32 mg/L	26.00 NTU	82.0 mV	26.98 ft	80.00 ml/min
9/13/2021 12:26 PM	25:00	4.71 pH	21.66 °C	463.29 µS/cm	0.27 mg/L	23.50 NTU	60.9 mV	26.98 ft	80.00 ml/min
9/13/2021 12:31 PM	30:00	4.70 pH	21.60 °C	464.95 µS/cm	0.29 mg/L	15.20 NTU	78.2 mV	26.98 ft	80.00 ml/min
9/13/2021 12:36 PM	35:00	4.71 pH	21.59 °C	462.01 µS/cm	0.28 mg/L	12.30 NTU	60.1 mV	26.98 ft	80.00 ml/min
9/13/2021 12:41 PM	40:00	4.69 pH	21.67 °C	468.72 µS/cm	0.27 mg/L	10.70 NTU	59.5 mV	26.98 ft	80.00 ml/min
9/13/2021 12:46 PM	45:00	4.70 pH	21.91 °C	471.79 µS/cm	0.25 mg/L	11.40 NTU	78.4 mV	26.95 ft	80.00 ml/min
9/13/2021 12:51 PM	50:00	4.70 pH	21.69 °C	473.16 µS/cm	0.26 mg/L	11.50 NTU	61.1 mV	26.94 ft	80.00 ml/min
9/13/2021 12:56 PM	55:00	4.68 pH	21.83 °C	473.60 µS/cm	0.26 mg/L	11.00 NTU	83.8 mV	26.94 ft	80.00 ml/min
9/13/2021 1:01 PM	01:00:00	4.70 pH	21.91 °C	474.02 µS/cm	0.26 mg/L	9.40 NTU	63.7 mV	26.94 ft	80.00 ml/min

9/13/2021 1:06 PM	01:05:00	4.70 pH	21.66 °C	474.17 µS/cm	0.24 mg/L	5.43 NTU	62.7 mV	26.97 ft	80.00 ml/min
9/13/2021 1:11 PM	01:10:00	4.69 pH	21.75 °C	474.76 µS/cm	0.23 mg/L	3.44 NTU	85.7 mV	26.97 ft	80.00 ml/min

Samples

Sample ID:	Description:
B-56	

Low-Flow Test Report:

Test Date / Time: 9/9/2021 2:26:06 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-62 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.62 ft Total Depth: 39.62 ft Initial Depth to Water: 11.95 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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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	
9/9/2021 2:26 PM	00:00	6.40 pH	29.86 °C	261.98 µS/cm	4.59 mg/L	40.10 NTU	47.2 mV	11.95 ft	250.00 ml/min
9/9/2021 2:31 PM	05:00	6.35 pH	20.27 °C	296.54 µS/cm	0.41 mg/L	38.80 NTU	13.7 mV	12.38 ft	250.00 ml/min
9/9/2021 2:36 PM	10:00	6.37 pH	19.77 °C	286.67 µS/cm	0.31 mg/L	35.50 NTU	3.9 mV	12.40 ft	250.00 ml/min
9/9/2021 2:41 PM	15:00	6.27 pH	19.63 °C	278.05 µS/cm	0.26 mg/L	38.00 NTU	3.9 mV	12.40 ft	250.00 ml/min
9/9/2021 2:46 PM	20:00	6.32 pH	19.59 °C	270.42 µS/cm	0.19 mg/L	13.00 NTU	1.5 mV	12.40 ft	250.00 ml/min
9/9/2021 2:51 PM	25:00	6.33 pH	19.59 °C	274.22 µS/cm	0.24 mg/L	17.00 NTU	11.6 mV	12.40 ft	250.00 ml/min
9/9/2021 2:56 PM	30:00	6.32 pH	19.55 °C	268.88 µS/cm	0.21 mg/L	12.20 NTU	4.3 mV	12.40 ft	250.00 ml/min
9/9/2021 3:01 PM	35:00	6.29 pH	19.53 °C	268.39 µS/cm	0.20 mg/L	15.20 NTU	6.0 mV	12.40 ft	250.00 ml/min
9/9/2021 3:06 PM	40:00	6.30 pH	19.72 °C	268.63 µS/cm	0.20 mg/L	15.10 NTU	13.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:11 PM	45:00	6.25 pH	20.08 °C	269.64 µS/cm	0.22 mg/L	13.20 NTU	8.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:16 PM	50:00	6.27 pH	20.70 °C	271.92 µS/cm	0.30 mg/L	19.10 NTU	11.8 mV	12.40 ft	250.00 ml/min
9/9/2021 3:21 PM	55:00	6.23 pH	20.95 °C	269.42 µS/cm	0.32 mg/L	20.50 NTU	18.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:26 PM	01:00:00	6.29 pH	19.95 °C	269.54 µS/cm	0.31 mg/L	19.50 NTU	17.3 mV	12.40 ft	250.00 ml/min
9/9/2021 3:31 PM	01:05:00	6.26 pH	19.81 °C	269.39 µS/cm	0.24 mg/L	12.70 NTU	16.6 mV	12.40 ft	250.00 ml/min
9/9/2021 3:36 PM	01:10:00	6.29 pH	19.86 °C	269.42 µS/cm	0.21 mg/L	9.60 NTU	15.2 mV	12.40 ft	250.00 ml/min

9/9/2021 3:41 PM	01:15:00	6.29 pH	19.79 °C	268.73 µS/cm	0.18 mg/L	6.66 NTU	14.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:46 PM	01:20:00	6.31 pH	19.81 °C	268.58 µS/cm	0.18 mg/L	3.00 NTU	14.5 mV	12.40 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-62	

Low-Flow Test Report:

Test Date / Time: 9/14/2021 12:10:22 PM

Project: Plant McDonough (17)

Operator Name: Erik Rheams

Location Name: B-63 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.15 ft Total Depth: 46.15 ft Initial Depth to Water: 28.73 ft	Pump Type: bladder Tubing Type: Polyethylene Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 6300 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/14/2021 12:10 PM	00:00	5.55 pH	31.17 °C	245.93 µS/cm	1.65 mg/L	37.20 NTU	63.6 mV	28.73 ft	180.00 ml/min
9/14/2021 12:15 PM	05:00	5.44 pH	23.18 °C	262.47 µS/cm	0.40 mg/L	20.70 NTU	74.6 mV	29.11 ft	180.00 ml/min
9/14/2021 12:20 PM	10:00	5.43 pH	22.18 °C	263.18 µS/cm	0.29 mg/L	14.80 NTU	78.4 mV	29.24 ft	180.00 ml/min
9/14/2021 12:25 PM	15:00	5.43 pH	21.87 °C	265.23 µS/cm	0.26 mg/L	10.65 NTU	79.1 mV	29.31 ft	180.00 ml/min
9/14/2021 12:30 PM	20:00	5.43 pH	21.87 °C	263.66 µS/cm	0.23 mg/L	8.31 NTU	75.9 mV	29.33 ft	180.00 ml/min
9/14/2021 12:35 PM	25:00	5.42 pH	21.64 °C	263.31 µS/cm	0.20 mg/L	7.01 NTU	77.2 mV	29.34 ft	180.00 ml/min
9/14/2021 12:40 PM	30:00	5.45 pH	21.66 °C	262.17 µS/cm	0.19 mg/L	5.57 NTU	75.3 mV	29.34 ft	180.00 ml/min
9/14/2021 12:45 PM	35:00	5.46 pH	22.09 °C	262.66 µS/cm	0.17 mg/L	4.95 NTU	76.2 mV	29.34 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/14/2021 10:02:34 AM

Project: Plant McDonough (13)

Operator Name: D Fulton

Location Name: B-66 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.99 ft Total Depth: 57.99 ft Initial Depth to Water: 16.77 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 52 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear,78

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	
9/14/2021 10:02 AM	00:00	6.25 pH	23.88 °C	854.92 µS/cm	4.90 mg/L	5.54 NTU	34.7 mV	16.88 ft	50.00 ml/min
9/14/2021 10:07 AM	05:00	6.42 pH	22.73 °C	774.75 µS/cm	1.43 mg/L	6.80 NTU	9.6 mV	17.24 ft	50.00 ml/min
9/14/2021 10:12 AM	10:00	6.44 pH	23.19 °C	775.69 µS/cm	0.93 mg/L	6.53 NTU	8.8 mV	17.41 ft	50.00 ml/min
9/14/2021 10:17 AM	15:00	6.45 pH	23.42 °C	765.57 µS/cm	0.62 mg/L	10.67 NTU	17.4 mV	17.75 ft	100.00 ml/min
9/14/2021 10:22 AM	20:00	6.44 pH	21.62 °C	764.84 µS/cm	0.23 mg/L	10.77 NTU	6.8 mV	18.30 ft	100.00 ml/min
9/14/2021 10:27 AM	25:00	6.45 pH	21.24 °C	771.94 µS/cm	0.21 mg/L	12.42 NTU	16.1 mV	18.79 ft	100.00 ml/min
9/14/2021 10:32 AM	30:00	6.48 pH	21.15 °C	766.49 µS/cm	0.27 mg/L	6.37 NTU	17.1 mV	19.12 ft	100.00 ml/min
9/14/2021 10:37 AM	35:00	6.52 pH	21.10 °C	767.14 µS/cm	0.35 mg/L	4.08 NTU	18.3 mV	19.45 ft	100.00 ml/min
9/14/2021 10:42 AM	40:00	6.52 pH	21.42 °C	768.61 µS/cm	0.32 mg/L	4.08 NTU	17.2 mV	19.70 ft	100.00 ml/min
9/14/2021 10:47 AM	45:00	6.52 pH	21.69 °C	757.53 µS/cm	0.31 mg/L	3.44 NTU	6.9 mV	19.87 ft	100.00 ml/min
9/14/2021 10:52 AM	50:00	6.53 pH	21.85 °C	764.39 µS/cm	0.33 mg/L	4.09 NTU	5.4 mV	20.03 ft	100.00 ml/min
9/14/2021 10:57 AM	55:00	6.52 pH	22.12 °C	774.49 µS/cm	0.33 mg/L	1.85 NTU	15.0 mV	20.09 ft	100.00 ml/min
9/14/2021 11:02 AM	01:00:00	6.54 pH	22.27 °C	759.32 µS/cm	0.47 mg/L	2.10 NTU	14.5 mV	20.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-66	Dup-4

Low-Flow Test Report:

Test Date / Time: 9/14/2021 10:20:59 AM

Project: Plant McDonough (16)

Operator Name: Erik Rheams

Location Name: B-77 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.4 ft Total Depth: 43.4 ft Initial Depth to Water: 29.31 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.81 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/14/2021 10:20 AM	00:00	6.44 pH	23.66 °C	377.79 µS/cm	1.57 mg/L	5.72 NTU	-60.4 mV	29.31 ft	200.00 ml/min
9/14/2021 10:25 AM	05:00	6.48 pH	21.56 °C	384.35 µS/cm	0.32 mg/L	6.57 NTU	-70.6 mV	30.09 ft	200.00 ml/min
9/14/2021 10:30 AM	10:00	6.47 pH	21.82 °C	378.26 µS/cm	0.28 mg/L	4.02 NTU	-75.4 mV	30.18 ft	200.00 ml/min
9/14/2021 10:35 AM	15:00	6.44 pH	22.54 °C	361.86 µS/cm	0.31 mg/L	2.57 NTU	-73.6 mV	30.12 ft	200.00 ml/min
9/14/2021 10:40 AM	20:00	6.42 pH	22.76 °C	353.67 µS/cm	0.30 mg/L	2.85 NTU	-69.2 mV	30.12 ft	200.00 ml/min
9/14/2021 10:45 AM	25:00	6.42 pH	22.81 °C	350.45 µS/cm	0.28 mg/L	2.54 NTU	-72.4 mV	30.12 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/14/2021 12:25:37 PM

Project: Plant McDonough (14)

Operator Name: D Fulton

Location Name: B-82 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.65 ft Total Depth: 47.65 ft Initial Depth to Water: 14.94 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 3.0 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.86 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Cloudy, 82

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	
9/14/2021 12:25 PM	00:00	5.38 pH	29.63 °C	757.45 µS/cm	5.91 mg/L	1.38 NTU	107.3 mV	15.21 ft	100.00 ml/min
9/14/2021 12:30 PM	05:00	5.17 pH	22.45 °C	784.10 µS/cm	0.59 mg/L	0.91 NTU	153.6 mV	15.60 ft	110.00 ml/min
9/14/2021 12:35 PM	10:00	5.16 pH	21.93 °C	777.08 µS/cm	0.47 mg/L	1.26 NTU	143.5 mV	15.74 ft	100.00 ml/min
9/14/2021 12:40 PM	15:00	5.16 pH	21.77 °C	778.92 µS/cm	0.44 mg/L	2.09 NTU	137.8 mV	15.80 ft	100.00 ml/min
9/14/2021 12:45 PM	20:00	5.16 pH	21.69 °C	779.91 µS/cm	0.42 mg/L	1.02 NTU	131.8 mV	15.80 ft	100.00 ml/min
9/14/2021 12:50 PM	25:00	5.15 pH	21.68 °C	777.66 µS/cm	0.40 mg/L	1.52 NTU	127.5 mV	15.80 ft	100.00 ml/min
9/14/2021 12:55 PM	30:00	5.15 pH	21.70 °C	772.42 µS/cm	0.40 mg/L	3.92 NTU	172.5 mV	15.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-82	

Low-Flow Test Report:

Test Date / Time: 9/16/2021 10:07:36 AM

Project: Plant McDonough

Operator Name: Erin D Hondt

Location Name: B-83 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.9 ft Total Depth: 48.9 ft Initial Depth to Water: 29.24 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 43.9 ft Estimated Total Volume Pumped: 20400 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728638
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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 %	+/- 10	+/- 10	+/- 0.3	
9/16/2021 10:07 AM	00:00	5.62 pH	21.04 °C	391.42 µS/cm	0.54 mg/L	999.00 NTU	99.1 mV	29.04 ft	240.00 ml/min
9/16/2021 10:12 AM	05:00	5.62 pH	21.06 °C	380.63 µS/cm	0.38 mg/L	999.00 NTU	134.5 mV	29.15 ft	240.00 ml/min
9/16/2021 10:17 AM	10:00	5.61 pH	21.06 °C	372.81 µS/cm	0.29 mg/L	999.00 NTU	75.6 mV	29.15 ft	240.00 ml/min
9/16/2021 10:22 AM	15:00	5.60 pH	21.05 °C	366.91 µS/cm	0.24 mg/L	999.00 NTU	131.4 mV	29.15 ft	240.00 ml/min
9/16/2021 10:27 AM	20:00	5.60 pH	21.05 °C	363.81 µS/cm	0.20 mg/L	999.00 NTU	98.6 mV	29.15 ft	240.00 ml/min
9/16/2021 10:32 AM	25:00	5.60 pH	21.02 °C	360.99 µS/cm	0.18 mg/L	999.00 NTU	131.7 mV	29.15 ft	240.00 ml/min
9/16/2021 10:37 AM	30:00	5.59 pH	21.06 °C	362.69 µS/cm	0.18 mg/L	999.00 NTU	98.3 mV	29.15 ft	240.00 ml/min
9/16/2021 10:42 AM	35:00	5.58 pH	21.06 °C	362.58 µS/cm	0.18 mg/L	71.40 NTU	96.5 mV	29.15 ft	240.00 ml/min
9/16/2021 10:47 AM	40:00	5.58 pH	21.01 °C	359.88 µS/cm	0.17 mg/L	55.20 NTU	130.5 mV	29.15 ft	240.00 ml/min
9/16/2021 10:52 AM	45:00	5.58 pH	21.01 °C	362.03 µS/cm	0.17 mg/L	27.80 NTU	97.7 mV	29.15 ft	240.00 ml/min
9/16/2021 10:57 AM	50:00	5.57 pH	20.83 °C	366.16 µS/cm	0.19 mg/L	25.20 NTU	97.0 mV	29.15 ft	240.00 ml/min
9/16/2021 11:02 AM	55:00	5.58 pH	20.83 °C	359.49 µS/cm	0.17 mg/L	18.50 NTU	131.9 mV	29.15 ft	240.00 ml/min
9/16/2021 11:07 AM	01:00:00	5.58 pH	20.83 °C	360.42 µS/cm	0.16 mg/L	16.20 NTU	135.9 mV	29.15 ft	240.00 ml/min
9/16/2021 11:12 AM	01:05:00	5.59 pH	20.87 °C	363.85 µS/cm	0.18 mg/L	12.90 NTU	100.5 mV	29.15 ft	240.00 ml/min
9/16/2021 11:17 AM	01:10:00	5.57 pH	20.90 °C	360.27 µS/cm	0.16 mg/L	8.60 NTU	134.6 mV	29.15 ft	240.00 ml/min
9/16/2021 11:22 AM	01:15:00	5.58 pH	20.86 °C	361.01 µS/cm	0.17 mg/L	7.20 NTU	138.7 mV	29.15 ft	240.00 ml/min
9/16/2021 11:27 AM	01:20:00	5.58 pH	20.88 °C	360.59 µS/cm	0.16 mg/L	4.30 NTU	102.8 mV	29.15 ft	240.00 ml/min

9/16/2021 11:32 AM	01:25:00	6.12 pH	21.00 °C	0.70 µS/cm	0.20 mg/L	1.10 NTU	50.1 mV	20.15 ft	210.00 ml/min
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Samples

Sample ID:	Description:
B-83	FB-6

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/13/2021 2:16:14 PM

Project: Plant McDonough (14)

Operator Name: Erik Rheams

Location Name: B-88 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 65.06 ft Total Depth: 75.06 m Initial Depth to Water: 36.75 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Pump Intake From TOC: 70 ft Estimated Total Volume Pumped: 4400 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/13/2021 2:16 PM	00:00	6.36 pH	29.29 °C	623.80 µS/cm	4.94 mg/L	4.96 NTU	57.9 mV	36.75 ft	220.00 ml/min
9/13/2021 2:21 PM	05:00	5.69 pH	20.35 °C	733.17 µS/cm	0.93 mg/L	2.32 NTU	58.8 mV	36.88 ft	220.00 ml/min
9/13/2021 2:26 PM	10:00	5.68 pH	19.86 °C	740.29 µS/cm	0.42 mg/L	1.40 NTU	57.2 mV	36.85 ft	220.00 ml/min
9/13/2021 2:31 PM	15:00	5.68 pH	19.77 °C	733.77 µS/cm	0.31 mg/L	1.82 NTU	56.8 mV	36.85 ft	220.00 ml/min
9/13/2021 2:36 PM	20:00	5.68 pH	19.72 °C	735.87 µS/cm	0.25 mg/L	2.20 NTU	55.6 mV	36.85 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/15/2021 11:18:38 AM

Project: Plant McDonough (16)

Operator Name: D Fulton

Location Name: B-92 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.3 ft Total Depth: 29.3 ft Initial Depth to Water: 5.82 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Cloudy, Rain, 80 s

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	
9/15/2021 11:18 AM	00:00	4.59 pH	24.33 °C	920.60 µS/cm	2.46 mg/L	59.20 NTU	308.5 mV	5.90 ft	150.00 ml/min
9/15/2021 11:23 AM	05:00	4.56 pH	20.84 °C	924.45 µS/cm	0.32 mg/L	3.05 NTU	453.1 mV	5.93 ft	150.00 ml/min
9/15/2021 11:28 AM	10:00	4.55 pH	20.25 °C	924.18 µS/cm	0.15 mg/L	1.46 NTU	566.4 mV	5.95 ft	225.00 ml/min
9/15/2021 11:33 AM	15:00	4.56 pH	20.13 °C	930.37 µS/cm	0.12 mg/L	2.49 NTU	471.1 mV	5.95 ft	225.00 ml/min
9/15/2021 11:38 AM	20:00	4.55 pH	20.08 °C	925.76 µS/cm	0.12 mg/L	1.78 NTU	567.8 mV	5.95 ft	225.00 ml/min

Samples

Sample ID:	Description:
B-92	

Low-Flow Test Report:

Test Date / Time: 9/15/2021 11:16:50 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-93 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.3 ft Total Depth: 29.3 ft Initial Depth to Water: 8.6 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.81 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

DUP-5

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	
9/15/2021 11:16 AM	00:00	4.60 pH	22.39 °C	998.33 µS/cm	0.56 mg/L	3.46 NTU	360.0 mV	8.60 ft	250.00 ml/min
9/15/2021 11:21 AM	05:00	4.58 pH	20.70 °C	1,029.8 µS/cm	0.38 mg/L	2.38 NTU	474.8 mV	9.35 ft	250.00 ml/min
9/15/2021 11:26 AM	10:00	4.59 pH	20.66 °C	1,041.3 µS/cm	0.34 mg/L	1.70 NTU	563.0 mV	9.40 ft	250.00 ml/min
9/15/2021 11:31 AM	15:00	4.60 pH	20.70 °C	1,029.5 µS/cm	0.32 mg/L	2.67 NTU	521.0 mV	9.41 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-93	DUP-5

Low-Flow Test Report:

Test Date / Time: 9/15/2021 12:35:28 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-97 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.71 ft Total Depth: 30.71 ft Initial Depth to Water: 6.35 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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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	
9/15/2021 12:35 PM	00:00	5.50 pH	23.93 °C	1,196.2 µS/cm	0.48 mg/L	0.84 NTU	345.8 mV	6.35 ft	250.00 ml/min
9/15/2021 12:40 PM	05:00	5.49 pH	21.43 °C	1,265.3 µS/cm	0.17 mg/L	0.62 NTU	376.8 mV	6.45 ft	250.00 ml/min
9/15/2021 12:45 PM	10:00	5.49 pH	21.23 °C	1,260.6 µS/cm	0.13 mg/L	0.75 NTU	366.4 mV	6.45 ft	250.00 ml/min
9/15/2021 12:50 PM	15:00	5.49 pH	20.98 °C	1,261.6 µS/cm	0.11 mg/L	0.98 NTU	530.9 mV	6.45 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-97	FB-5

Low-Flow Test Report:

Test Date / Time: 9/15/2021 12:36:06 PM

Project: Plant McDonough (17)

Operator Name: D Fulton

Location Name: B-98 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9.1 ft Total Depth: 19.1 ft Initial Depth to Water: 9.46 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Cloudy, 80 s

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	
9/15/2021 12:36 PM	00:00	5.91 pH	26.97 °C	860.81 µS/cm	4.04 mg/L	10.62 NTU	225.8 mV	9.53 ft	200.00 ml/min
9/15/2021 12:41 PM	05:00	5.87 pH	21.46 °C	853.93 µS/cm	0.22 mg/L	15.40 NTU	191.4 mV	9.58 ft	200.00 ml/min
9/15/2021 12:46 PM	10:00	5.71 pH	21.02 °C	814.91 µS/cm	0.14 mg/L	11.70 NTU	130.2 mV	9.60 ft	200.00 ml/min
9/15/2021 12:51 PM	15:00	5.61 pH	20.92 °C	822.19 µS/cm	0.12 mg/L	10.23 NTU	118.6 mV	9.60 ft	200.00 ml/min
9/15/2021 12:56 PM	20:00	5.52 pH	20.83 °C	833.96 µS/cm	0.10 mg/L	6.31 NTU	110.8 mV	9.60 ft	200.00 ml/min
9/15/2021 1:01 PM	25:00	5.45 pH	20.70 °C	839.62 µS/cm	0.09 mg/L	6.09 NTU	145.4 mV	9.62 ft	200.00 ml/min
9/15/2021 1:06 PM	30:00	5.41 pH	20.74 °C	849.90 µS/cm	0.09 mg/L	4.63 NTU	103.0 mV	9.63 ft	200.00 ml/min
9/15/2021 1:11 PM	35:00	5.40 pH	20.71 °C	851.03 µS/cm	0.08 mg/L	4.89 NTU	96.6 mV	9.64 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-98	EB-5

Low-Flow Test Report:

Test Date / Time: 9/13/2021 3:54:15 PM

Project: Plant McDonough (15)

Operator Name: Erik Rheams

Location Name: B-100 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.93 ft Total Depth: 47.93 ft Initial Depth to Water: 34.88 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 9600 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/13/2021 3:54 PM	00:00	5.15 pH	33.05 °C	729.00 µS/cm	2.59 mg/L	78.30 NTU	42.4 mV	34.88 ft	160.00 ml/min
9/13/2021 3:59 PM	05:00	5.18 pH	25.97 °C	785.56 µS/cm	0.61 mg/L	48.00 NTU	34.9 mV	34.99 ft	160.00 ml/min
9/13/2021 4:04 PM	10:00	5.20 pH	25.35 °C	781.72 µS/cm	0.45 mg/L	25.10 NTU	32.8 mV	35.03 ft	160.00 ml/min
9/13/2021 4:09 PM	15:00	5.22 pH	24.97 °C	776.70 µS/cm	0.38 mg/L	20.00 NTU	32.0 mV	35.00 ft	160.00 ml/min
9/13/2021 4:14 PM	20:00	5.23 pH	24.43 °C	777.53 µS/cm	0.33 mg/L	17.40 NTU	31.1 mV	35.00 ft	160.00 ml/min
9/13/2021 4:19 PM	25:00	5.23 pH	24.49 °C	773.98 µS/cm	0.30 mg/L	17.00 NTU	30.3 mV	35.00 ft	160.00 ml/min
9/13/2021 4:24 PM	30:00	5.23 pH	24.79 °C	771.20 µS/cm	0.27 mg/L	11.90 NTU	29.6 mV	35.00 ft	160.00 ml/min
9/13/2021 4:29 PM	35:00	5.23 pH	25.08 °C	764.96 µS/cm	0.26 mg/L	12.50 NTU	28.9 mV	35.00 ft	160.00 ml/min
9/13/2021 4:34 PM	40:00	5.23 pH	25.82 °C	762.55 µS/cm	0.28 mg/L	11.70 NTU	27.9 mV	35.00 ft	160.00 ml/min
9/13/2021 4:39 PM	45:00	5.22 pH	26.07 °C	751.76 µS/cm	0.28 mg/L	14.20 NTU	27.6 mV	35.00 ft	160.00 ml/min
9/13/2021 4:44 PM	50:00	5.25 pH	23.30 °C	752.36 µS/cm	0.22 mg/L	10.59 NTU	29.5 mV	35.00 ft	160.00 ml/min
9/13/2021 4:49 PM	55:00	5.26 pH	22.98 °C	756.66 µS/cm	0.16 mg/L	5.34 NTU	29.6 mV	35.00 ft	160.00 ml/min
9/13/2021 4:54 PM	01:00:00	5.27 pH	23.12 °C	750.79 µS/cm	0.13 mg/L	4.33 NTU	29.3 mV	35.00 ft	160.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/13/2021 2:57:17 PM

Project: Plant McDonough (12)

Operator Name: D Fulton

Location Name: B-101D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 64.9 ft Total Depth: 74.9 ft Initial Depth to Water: 28.18 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 69 ft Estimated Total Volume Pumped: 3.03 liter Flow Cell Volume: 90 ml Final Flow Rate: 55 ml/min Final Draw Down: 2.64 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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	
9/13/2021 2:57 PM	00:00	6.24 pH	30.46 °C	524.83 µS/cm	3.62 mg/L	53.00 NTU	69.6 mV	29.65 ft	50.00 ml/min
9/13/2021 3:02 PM	05:00	6.15 pH	26.97 °C	513.73 µS/cm	2.07 mg/L	48.00 NTU	14.1 mV	29.90 ft	50.00 ml/min
9/13/2021 3:07 PM	10:00	6.11 pH	27.00 °C	517.88 µS/cm	1.42 mg/L	19.05 NTU	38.0 mV	30.08 ft	50.00 ml/min
9/13/2021 3:12 PM	15:00	6.10 pH	27.48 °C	515.76 µS/cm	1.27 mg/L	12.30 NTU	49.9 mV	30.25 ft	60.00 ml/min
9/13/2021 3:17 PM	20:00	6.09 pH	27.71 °C	517.29 µS/cm	1.05 mg/L	8.44 NTU	58.1 mV	30.38 ft	60.00 ml/min
9/13/2021 3:22 PM	25:00	6.09 pH	27.29 °C	513.83 µS/cm	0.90 mg/L	7.33 NTU	50.1 mV	30.48 ft	60.00 ml/min
9/13/2021 3:27 PM	30:00	6.08 pH	27.16 °C	514.46 µS/cm	1.24 mg/L	4.50 NTU	64.5 mV	30.58 ft	60.00 ml/min
9/13/2021 3:32 PM	35:00	6.08 pH	27.02 °C	513.62 µS/cm	1.15 mg/L	4.06 NTU	65.9 mV	30.65 ft	60.00 ml/min
9/13/2021 3:37 PM	40:00	6.08 pH	27.12 °C	514.07 µS/cm	1.11 mg/L	3.36 NTU	65.0 mV	30.70 ft	60.00 ml/min
9/13/2021 3:42 PM	45:00	6.07 pH	27.44 °C	513.26 µS/cm	1.04 mg/L	2.87 NTU	63.4 mV	30.75 ft	55.00 ml/min
9/13/2021 3:47 PM	50:00	6.07 pH	27.99 °C	513.97 µS/cm	0.97 mg/L	2.74 NTU	49.1 mV	30.78 ft	55.00 ml/min
9/13/2021 3:52 PM	55:00	6.07 pH	26.60 °C	509.33 µS/cm	0.93 mg/L	2.36 NTU	44.7 mV	30.82 ft	55.00 ml/min

Samples

Sample ID:	Description:
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B-101D	FB-3
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2021 2:07:37 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: B-102D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.4 ft Total Depth: 84.4 ft Initial Depth to Water: 29.18 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 79 ft Estimated Total Volume Pumped: 3800 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 1.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/10/2021 2:07 PM	00:00	6.50 pH	30.91 °C	526.61 µS/cm	2.10 mg/L	1.11 NTU	-79.1 mV	29.18 ft	200.00 ml/min
9/10/2021 2:12 PM	05:00	5.47 pH	22.82 °C	632.25 µS/cm	0.49 mg/L	0.89 NTU	-5.9 mV	30.02 ft	200.00 ml/min
9/10/2021 2:17 PM	10:00	5.39 pH	22.31 °C	640.53 µS/cm	0.35 mg/L	1.64 NTU	19.4 mV	30.12 ft	180.00 ml/min
9/10/2021 2:22 PM	15:00	5.38 pH	22.17 °C	643.13 µS/cm	0.28 mg/L	0.95 NTU	49.1 mV	30.19 ft	180.00 ml/min
9/10/2021 2:27 PM	20:00	5.36 pH	22.05 °C	643.64 µS/cm	0.24 mg/L	0.88 NTU	55.7 mV	30.20 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/14/2021 4:10:27 PM

Project: Plant McDonough (19)

Operator Name: Erik Rheams

Location Name: B-104D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50 ft Total Depth: 60 ft Initial Depth to Water: 5.78 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.83 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/14/2021 4:10 PM	00:00	6.51 pH	28.28 °C	983.32 µS/cm	1.37 mg/L	3.55 NTU	-0.7 mV	5.78 ft	100.00 ml/min
9/14/2021 4:15 PM	05:00	6.46 pH	25.97 °C	1,036.4 µS/cm	0.62 mg/L	2.46 NTU	-27.1 mV	5.95 ft	100.00 ml/min
9/14/2021 4:20 PM	10:00	6.49 pH	25.28 °C	1,035.4 µS/cm	0.48 mg/L	2.16 NTU	-50.9 mV	6.60 ft	100.00 ml/min
9/14/2021 4:25 PM	15:00	6.53 pH	24.88 °C	1,035.5 µS/cm	0.41 mg/L	2.20 NTU	-72.9 mV	7.29 ft	100.00 ml/min
9/14/2021 4:30 PM	20:00	6.56 pH	24.90 °C	1,039.1 µS/cm	0.36 mg/L	2.42 NTU	-82.8 mV	7.89 ft	100.00 ml/min
9/14/2021 4:35 PM	25:00	6.58 pH	25.08 °C	1,036.3 µS/cm	0.33 mg/L	2.50 NTU	-98.4 mV	8.31 ft	100.00 ml/min
9/14/2021 4:40 PM	30:00	6.58 pH	26.15 °C	1,052.6 µS/cm	0.36 mg/L	2.58 NTU	-99.2 mV	8.49 ft	100.00 ml/min
9/14/2021 4:45 PM	35:00	6.58 pH	27.06 °C	1,037.6 µS/cm	0.40 mg/L	2.17 NTU	-105.5 mV	8.61 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/13/2021 11:54:54 AM

Project: Plant McDonough (13)

Operator Name: Erik Rheams

Location Name: B-106D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.4 ft Total Depth: 79.4 ft Initial Depth to Water: 38.05 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Pump Intake From TOC: 74 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.37 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/13/2021 11:54 AM	00:00	6.51 pH	32.15 °C	338.70 µS/cm	2.24 mg/L	4.27 NTU	-10.5 mV	38.05 ft	200.00 ml/min
9/13/2021 11:59 AM	05:00	5.93 pH	21.24 °C	407.86 µS/cm	0.79 mg/L	2.04 NTU	14.1 mV	38.33 ft	200.00 ml/min
9/13/2021 12:04 PM	10:00	5.91 pH	20.87 °C	408.22 µS/cm	0.52 mg/L	1.35 NTU	20.3 mV	38.39 ft	200.00 ml/min
9/13/2021 12:09 PM	15:00	5.91 pH	20.62 °C	406.42 µS/cm	0.42 mg/L	2.39 NTU	23.3 mV	38.42 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-106D	Dup-3

Low-Flow Test Report:

Test Date / Time: 9/13/2021 4:12:46 PM

Project: Plant McDonough (3)

Operator Name: E. Dhondt

Location Name: B-107D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 75.5 ft Total Depth: 85.5 ft Initial Depth to Water: 21.95 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 80.5 ft Estimated Total Volume Pumped: 21718.666 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/13/2021 4:12 PM	00:00	6.91 pH	21.82 °C	255.14 µS/cm	0.18 mg/L	7.90 NTU	-80.4 mV	22.15 ft	280.00 ml/min
9/13/2021 4:17 PM	05:00	6.92 pH	21.46 °C	271.17 µS/cm	0.13 mg/L	8.47 NTU	-83.2 mV	22.15 ft	280.00 ml/min
9/13/2021 4:22 PM	10:00	6.63 pH	23.84 °C	222.10 µS/cm	1.06 mg/L	12.9 NTU	-12.9 mV	22.15 ft	280.00 ml/min
9/13/2021 4:24 PM	12:05	6.52 pH	21.95 °C	227.59 µS/cm	0.54 mg/L	13.8 NTU	7.3 mV	22.15 ft	280.00 ml/min
9/13/2021 4:27 PM	15:11	6.60 pH	21.50 °C	234.18 µS/cm	0.28 mg/L	11.6 NTU	-47.3 mV	22.15 ft	280.00 ml/min
9/13/2021 4:30 PM	17:34	6.64 pH	21.50 °C	245.09 µS/cm	0.23 mg/L	11.4 NTU	-58.2 mV	22.15 ft	280.00 ml/min
9/13/2021 4:35 PM	22:34	6.80 pH	21.96 °C	289.48 µS/cm	0.14 mg/L	11.0 NTU	-70.7 mV	22.15 ft	280.00 ml/min
9/13/2021 4:40 PM	27:34	6.73 pH	21.82 °C	330.42 µS/cm	0.11 mg/L	10.83 NTU	-68.0 mV	22.15 ft	280.00 ml/min
9/13/2021 4:45 PM	32:34	6.61 pH	22.01 °C	376.14 µS/cm	0.09 mg/L	9.54 NTU	-63.5 mV	22.15 ft	280.00 ml/min
9/13/2021 4:50 PM	37:34	6.48 pH	21.29 °C	439.92 µS/cm	0.08 mg/L	9.37 NTU	-106.8 mV	22.15 ft	280.00 ml/min
9/13/2021 4:55 PM	42:34	6.35 pH	21.73 °C	507.05 µS/cm	0.08 mg/L	7.92 NTU	-58.0 mV	22.15 ft	280.00 ml/min
9/13/2021 5:00 PM	47:34	6.22 pH	21.93 °C	579.39 µS/cm	0.07 mg/L	7.21 NTU	-54.3 mV	22.15 ft	280.00 ml/min
9/13/2021 5:05 PM	52:34	6.12 pH	21.92 °C	624.59 µS/cm	0.07 mg/L	7.39 NTU	-115.2 mV	22.15 ft	280.00 ml/min
9/13/2021 5:10 PM	57:34	6.03 pH	21.81 °C	654.95 µS/cm	0.07 mg/L	5.83 NTU	-68.7 mV	22.15 ft	280.00 ml/min
9/13/2021 5:15 PM	01:02:34	5.97 pH	21.98 °C	655.43 µS/cm	0.07 mg/L	5.76 NTU	-63.9 mV	22.15 ft	280.00 ml/min
9/13/2021 5:20 PM	01:07:34	5.92 pH	21.95 °C	658.71 µS/cm	0.06 mg/L	5.25 NTU	-55.1 mV	22.15 ft	280.00 ml/min

9/13/2021 5:25 PM	01:12:34	5.90 pH	21.82 °C	649.19 µS/cm	0.06 mg/L	4.82 NTU	-47.4 mV	22.15 ft	280.00 ml/min
9/13/2021 5:30 PM	01:17:34	5.88 pH	21.69 °C	648.52 µS/cm	0.06 mg/L	4.75 NTU	-41.7 mV	22.15 ft	280.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/14/2021 10:16:34 AM

Project: Plant McDonough (4)

Operator Name: E. Dhondt

Location Name: B-108D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69 ft Total Depth: 79 ft Initial Depth to Water: 20.15 ft	Pump Type: Peristaltic Pump Tubing Type: Polyethylene Pump Intake From TOC: 74 ft Estimated Total Volume Pumped: 18200 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/14/2021 10:16 AM	00:00	5.79 pH	21.82 °C	778.15 µS/cm	0.15 mg/L	4.99 NTU	35.1 mV	20.15 ft	280.00 ml/min
9/14/2021 10:21 AM	05:00	5.79 pH	21.82 °C	768.25 µS/cm	0.12 mg/L	3.54 NTU	29.0 mV	21.00 ft	280.00 ml/min
9/14/2021 10:26 AM	10:00	5.79 pH	21.65 °C	769.44 µS/cm	0.11 mg/L	3.11 NTU	23.2 mV	21.00 ft	280.00 ml/min
9/14/2021 10:31 AM	15:00	5.79 pH	21.46 °C	771.13 µS/cm	0.10 mg/L	4.06 NTU	25.1 mV	21.00 ft	280.00 ml/min
9/14/2021 10:36 AM	20:00	5.79 pH	21.51 °C	771.14 µS/cm	0.09 mg/L	4.02 NTU	19.8 mV	21.00 ft	280.00 ml/min
9/14/2021 10:41 AM	25:00	5.80 pH	21.19 °C	772.82 µS/cm	0.08 mg/L	3.99 NTU	18.9 mV	21.00 ft	280.00 ml/min
9/14/2021 10:46 AM	30:00	5.80 pH	21.49 °C	769.25 µS/cm	0.07 mg/L	3.87 NTU	23.7 mV	21.00 ft	280.00 ml/min
9/14/2021 10:51 AM	35:00	5.80 pH	21.66 °C	771.16 µS/cm	0.07 mg/L	3.85 NTU	18.9 mV	21.00 ft	280.00 ml/min
9/14/2021 10:56 AM	40:00	5.80 pH	21.52 °C	773.67 µS/cm	0.07 mg/L	3.78 NTU	25.1 mV	21.00 ft	280.00 ml/min
9/14/2021 11:01 AM	45:00	5.80 pH	21.64 °C	770.04 µS/cm	0.06 mg/L	3.77 NTU	24.3 mV	21.00 ft	280.00 ml/min
9/14/2021 11:06 AM	50:00	5.81 pH	21.41 °C	768.50 µS/cm	0.06 mg/L	2.32 NTU	25.9 mV	21.00 ft	280.00 ml/min
9/14/2021 11:11 AM	55:00	5.81 pH	21.57 °C	768.02 µS/cm	0.06 mg/L	2.18 NTU	27.3 mV	21.00 ft	280.00 ml/min
9/14/2021 11:16 AM	01:00:00	5.81 pH	21.75 °C	770.48 µS/cm	0.05 mg/L	2.22 NTU	28.7 mV	21.00 ft	280.00 ml/min
9/14/2021 11:21 AM	01:05:00	5.81 pH	21.84 °C	766.58 µS/cm	0.05 mg/L	2.38 NTU	29.9 mV	21.00 ft	280.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:26:02 PM

Project: Plant McDonough (9)

Operator Name: Erik Rheams

Location Name: B-109D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89 ft Total Depth: 99 ft Initial Depth to Water: 38.48 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 94 ft Estimated Total Volume Pumped: 5880 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/10/2021 12:26 PM	00:00	6.61 pH	28.83 °C	377.12 µS/cm	3.16 mg/L	6.01 NTU	-125.8 mV	38.48 ft	160.00 ml/min
9/10/2021 12:27 PM	01:45	6.67 pH	27.36 °C	365.27 µS/cm	4.07 mg/L	6.01 NTU	-118.0 mV	38.48 ft	160.00 ml/min
9/10/2021 12:32 PM	06:45	6.83 pH	25.38 °C	362.77 µS/cm	6.64 mg/L	11.20 NTU	-55.7 mV	38.56 ft	160.00 ml/min
9/10/2021 12:37 PM	11:45	6.89 pH	25.80 °C	345.76 µS/cm	7.88 mg/L	8.68 NTU	-57.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:42 PM	16:45	6.88 pH	26.42 °C	341.41 µS/cm	8.44 mg/L	8.15 NTU	-64.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:47 PM	21:45	6.87 pH	26.81 °C	333.41 µS/cm	8.63 mg/L	6.92 NTU	-77.5 mV	38.61 ft	160.00 ml/min
9/10/2021 12:52 PM	26:45	6.87 pH	26.66 °C	321.00 µS/cm	8.56 mg/L	7.46 NTU	-79.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:57 PM	31:45	6.88 pH	26.91 °C	318.32 µS/cm	8.86 mg/L	6.09 NTU	-82.6 mV	38.61 ft	160.00 ml/min
9/10/2021 1:02 PM	36:45	6.86 pH	27.11 °C	314.33 µS/cm	8.50 mg/L	3.86 NTU	-84.2 mV	38.61 ft	160.00 ml/min

Samples

Sample ID:	Description:
B-109D	EB-3

Low-Flow Test Report:

Test Date / Time: 9/14/2021 3:02:52 PM

Project: Plant McDonough (15)

Operator Name: D Fulton

Location Name: B-111D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.2 ft Total Depth: 84.2 ft Initial Depth to Water: 11.68 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 79 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.62 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear,85

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	
9/14/2021 3:02 PM	00:00	6.98 pH	31.90 °C	838.10 µS/cm	4.95 mg/L	1.20 NTU	-59.0 mV	11.89 ft	150.00 ml/min
9/14/2021 3:07 PM	05:00	7.12 pH	22.76 °C	929.76 µS/cm	0.59 mg/L	2.24 NTU	-80.2 mV	12.12 ft	100.00 ml/min
9/14/2021 3:12 PM	10:00	7.14 pH	22.27 °C	939.17 µS/cm	0.41 mg/L	1.18 NTU	-131.3 mV	12.18 ft	100.00 ml/min
9/14/2021 3:17 PM	15:00	7.14 pH	22.20 °C	941.33 µS/cm	0.34 mg/L	2.63 NTU	-87.7 mV	12.22 ft	100.00 ml/min
9/14/2021 3:22 PM	20:00	7.15 pH	22.80 °C	939.47 µS/cm	0.36 mg/L	0.96 NTU	-89.6 mV	12.23 ft	100.00 ml/min
9/14/2021 3:27 PM	25:00	7.15 pH	22.32 °C	934.33 µS/cm	0.33 mg/L	2.51 NTU	-89.8 mV	12.28 ft	100.00 ml/min
9/14/2021 3:32 PM	30:00	7.18 pH	22.14 °C	937.33 µS/cm	0.32 mg/L	2.23 NTU	-90.9 mV	12.29 ft	100.00 ml/min
9/14/2021 3:37 PM	35:00	7.29 pH	22.05 °C	947.92 µS/cm	0.29 mg/L	2.12 NTU	-94.6 mV	12.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-111D	EB-4

Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:20:51 PM

Project: Plant McDonough (6)

Operator Name: E. Dhondt

Location Name: B-115D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70 ft Total Depth: 80 ft Initial Depth to Water: 19.15 ft	Pump Type: peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 9112 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5.7 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/14/2021 2:20 PM	00:00	5.80 pH	21.76 °C	804.21 µS/cm	0.07 mg/L	3.41 NTU	32.1 mV	23.02 ft	280.00 ml/min
9/14/2021 2:25 PM	05:00	5.57 pH	21.91 °C	742.57 µS/cm	0.73 mg/L	2.79 NTU	47.9 mV	23.78 ft	280.00 ml/min
9/14/2021 2:30 PM	10:00	5.52 pH	21.80 °C	714.11 µS/cm	0.49 mg/L	2.62 NTU	45.2 mV	24.30 ft	280.00 ml/min
9/14/2021 2:35 PM	15:00	5.47 pH	21.68 °C	699.66 µS/cm	0.34 mg/L	2.45 NTU	43.3 mV	24.64 ft	280.00 ml/min
9/14/2021 2:41 PM	20:24	5.42 pH	22.09 °C	681.07 µS/cm	0.27 mg/L	2.02 NTU	47.2 mV	24.90 ft	280.00 ml/min
9/14/2021 2:46 PM	25:24	5.39 pH	21.90 °C	664.55 µS/cm	0.21 mg/L	1.79 NTU	40.7 mV	25.00 ft	200.00 ml/min
9/14/2021 2:51 PM	30:24	5.40 pH	22.21 °C	655.61 µS/cm	0.06 mg/L	1.79 NTU	35.6 mV	24.95 ft	200.00 ml/min
9/14/2021 2:56 PM	35:24	5.38 pH	22.80 °C	639.99 µS/cm	0.04 mg/L	1.76 NTU	35.5 mV	24.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:34:49 PM

Project: Plant McDonough (18)

Operator Name: Erik Rheams

Location Name: B-120D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60 ft Total Depth: 70 ft Initial Depth to Water: 34.52 ft	Pump Type: Dedicated bladder Tubing Type: Poly Pump Intake From TOC: 65 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/14/2021 2:34 PM	00:00	5.49 pH	25.99 °C	846.11 µS/cm	1.69 mg/L	6.75 NTU	77.3 mV	34.52 ft	200.00 ml/min
9/14/2021 2:39 PM	05:00	5.32 pH	21.13 °C	1,127.5 µS/cm	0.32 mg/L	3.42 NTU	93.4 mV	34.58 ft	200.00 ml/min
9/14/2021 2:44 PM	10:00	5.31 pH	20.87 °C	1,133.8 µS/cm	0.24 mg/L	2.15 NTU	100.1 mV	34.56 ft	200.00 ml/min
9/14/2021 2:49 PM	15:00	5.30 pH	20.66 °C	1,133.2 µS/cm	0.21 mg/L	2.08 NTU	102.8 mV	34.56 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/9/2021 1:23:11 PM

Project: Plant McDonough (3)

Operator Name: D Fulton

Location Name: B-116D Well Diameter: 2 ft Casing Type: PVC Screen Length: 10 ft Top of Screen: 80 ft Total Depth: 90 ft Initial Depth to Water: 42.28 ft	Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 85 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 82

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	
9/9/2021 1:23 PM	00:00	6.08 pH	27.12 °C	107.36 µS/cm	7.49 mg/L	2.08 NTU	129.4 mV	42.70 ft	225.00 ml/min
9/9/2021 1:28 PM	05:00	6.01 pH	19.63 °C	108.63 µS/cm	5.72 mg/L	2.30 NTU	82.6 mV	42.68 ft	225.00 ml/min
9/9/2021 1:33 PM	10:00	6.02 pH	19.15 °C	108.98 µS/cm	5.31 mg/L	4.57 NTU	76.7 mV	42.70 ft	200.00 ml/min
9/9/2021 1:38 PM	15:00	6.02 pH	19.15 °C	109.01 µS/cm	5.06 mg/L	4.78 NTU	75.7 mV	42.70 ft	200.00 ml/min
9/9/2021 1:43 PM	20:00	6.02 pH	19.10 °C	109.27 µS/cm	4.90 mg/L	5.00 NTU	75.0 mV	42.70 ft	200.00 ml/min
9/9/2021 1:48 PM	25:00	6.02 pH	19.15 °C	109.39 µS/cm	4.82 mg/L	3.64 NTU	75.0 mV	42.70 ft	200.00 ml/min
9/9/2021 1:53 PM	30:00	6.02 pH	19.23 °C	108.28 µS/cm	4.72 mg/L	3.76 NTU	75.1 mV	42.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-116D	

Low-Flow Test Report:

Test Date / Time: 9/8/2021 3:44:20 PM

Project: Plant McDonough (3)

Operator Name: Erik Rheams

Location Name: B-117D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.03 ft Total Depth: 79.03 ft Initial Depth to Water: 28.41 ft	Pump Type: dedicated Tubing Type: Polyethylene Pump Intake From TOC: 74 ft Estimated Total Volume Pumped: 5400 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.92 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/8/2021 3:44 PM	00:00	6.16 pH	25.97 °C	127.86 µS/cm	4.21 mg/L	8.02 NTU	166.9 mV	28.41 ft	180.00 ml/min
9/8/2021 3:49 PM	05:00	6.00 pH	20.57 °C	152.23 µS/cm	2.36 mg/L	19.40 NTU	129.8 mV	29.01 ft	180.00 ml/min
9/8/2021 3:54 PM	10:00	5.99 pH	20.55 °C	152.76 µS/cm	2.14 mg/L	12.30 NTU	111.2 mV	29.22 ft	180.00 ml/min
9/8/2021 3:59 PM	15:00	5.99 pH	20.51 °C	151.83 µS/cm	2.12 mg/L	8.31 NTU	103.7 mV	29.29 ft	180.00 ml/min
9/8/2021 4:04 PM	20:00	6.00 pH	19.98 °C	151.17 µS/cm	2.16 mg/L	6.67 NTU	100.8 mV	29.32 ft	180.00 ml/min
9/8/2021 4:09 PM	25:00	6.00 pH	20.04 °C	144.41 µS/cm	2.09 mg/L	6.66 NTU	100.2 mV	29.32 ft	180.00 ml/min
9/8/2021 4:14 PM	30:00	6.00 pH	20.16 °C	147.22 µS/cm	2.02 mg/L	4.88 NTU	98.3 mV	29.33 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/8/2021 1:11:12 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: B-118 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.32 ft Total Depth: 78.32 ft Initial Depth to Water: 50.46 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 73 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.27 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/8/2021 1:11 PM	00:00	6.08 pH	28.14 °C	102.33 µS/cm	6.23 mg/L	10.11 NTU	136.9 mV	50.46 ft	240.00 ml/min
9/8/2021 1:16 PM	05:00	6.02 pH	19.77 °C	90.18 µS/cm	5.01 mg/L	10.81 NTU	94.1 mV	50.70 ft	240.00 ml/min
9/8/2021 1:21 PM	10:00	6.02 pH	18.98 °C	90.32 µS/cm	4.87 mg/L	7.53 NTU	90.7 mV	50.73 ft	240.00 ml/min
9/8/2021 1:26 PM	15:00	6.02 pH	18.88 °C	89.52 µS/cm	4.89 mg/L	5.29 NTU	89.6 mV	50.73 ft	240.00 ml/min
9/8/2021 1:31 PM	20:00	6.01 pH	18.70 °C	89.15 µS/cm	4.81 mg/L	3.74 NTU	89.0 mV	50.73 ft	240.00 ml/min
9/8/2021 1:36 PM	25:00	6.01 pH	18.91 °C	91.98 µS/cm	4.70 mg/L	2.05 NTU	88.6 mV	50.73 ft	240.00 ml/min

Samples

Sample ID:	Description:
B-118	

Low-Flow Test Report:

Test Date / Time: 9/8/2021 2:27:01 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: B-119D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 97.98 ft Total Depth: 107.98 ft Initial Depth to Water: 46.88 ft	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 103 ft Estimated Total Volume Pumped: 6600 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.97 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Well labeled as GPC-119D

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	
9/8/2021 2:27 PM	00:00	6.62 pH	24.37 °C	160.70 µS/cm	5.26 mg/L	56.40 NTU	-79.8 mV	46.88 ft	180.00 ml/min
9/8/2021 2:32 PM	05:00	7.32 pH	19.72 °C	697.68 µS/cm	0.69 mg/L	25.20 NTU	-63.3 mV	47.43 ft	180.00 ml/min
9/8/2021 2:37 PM	10:00	7.26 pH	19.33 °C	622.03 µS/cm	0.49 mg/L	14.30 NTU	-73.6 mV	48.64 ft	180.00 ml/min
9/8/2021 2:42 PM	15:00	7.07 pH	19.14 °C	530.44 µS/cm	0.59 mg/L	10.32 NTU	-35.7 mV	49.48 ft	180.00 ml/min
9/8/2021 2:47 PM	20:00	6.80 pH	19.14 °C	378.29 µS/cm	1.15 mg/L	5.34 NTU	8.3 mV	50.33 ft	100.00 ml/min
9/8/2021 2:52 PM	25:00	6.75 pH	20.06 °C	372.43 µS/cm	1.56 mg/L	4.83 NTU	22.2 mV	50.59 ft	100.00 ml/min
9/8/2021 2:57 PM	30:00	6.73 pH	20.41 °C	345.91 µS/cm	1.60 mg/L	2.62 NTU	27.7 mV	50.70 ft	100.00 ml/min
9/8/2021 3:02 PM	35:00	6.72 pH	20.57 °C	335.13 µS/cm	1.73 mg/L	3.76 NTU	33.0 mV	50.73 ft	100.00 ml/min
9/8/2021 3:07 PM	40:00	6.70 pH	20.41 °C	313.36 µS/cm	1.69 mg/L	1.57 NTU	31.1 mV	50.78 ft	100.00 ml/min
9/8/2021 3:12 PM	45:00	6.69 pH	20.43 °C	315.99 µS/cm	1.64 mg/L	0.88 NTU	37.3 mV	50.83 ft	100.00 ml/min
9/8/2021 3:17 PM	50:00	6.68 pH	20.36 °C	305.64 µS/cm	1.64 mg/L	0.93 NTU	33.6 mV	50.85 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-119D	

APPENDIX A

Field Data Forms January 2022

Low-Flow Test Report:

Test Date / Time: 1/28/2022 8:54:52 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWA-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.89 ft Total Depth: 36.89 ft Initial Depth to Water: 11.75 ft	Pump Type: peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 31 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 7.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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 %	+/- 2	+/- 10	+/- 0.3	
1/28/2022 8:54 AM	00:00	6.41 pH	12.12 °C	173.97 µS/cm	3.92 mg/L	11.10 NTU	99.9 mV	11.75 ft	150.00 ml/min
1/28/2022 8:59 AM	05:00	6.36 pH	14.33 °C	168.70 µS/cm	3.52 mg/L	11.90 NTU	113.2 mV	13.35 ft	150.00 ml/min
1/28/2022 9:04 AM	10:00	6.36 pH	14.44 °C	167.31 µS/cm	3.44 mg/L	12.00 NTU	111.9 mV	14.20 ft	150.00 ml/min
1/28/2022 9:09 AM	15:00	6.34 pH	14.39 °C	168.48 µS/cm	3.43 mg/L	11.50 NTU	111.4 mV	14.90 ft	150.00 ml/min
1/28/2022 9:14 AM	20:00	6.34 pH	14.45 °C	169.68 µS/cm	3.57 mg/L	11.00 NTU	109.4 mV	15.52 ft	150.00 ml/min
1/28/2022 9:19 AM	25:00	6.35 pH	14.44 °C	168.04 µS/cm	3.48 mg/L	12.00 NTU	87.5 mV	16.15 ft	150.00 ml/min
1/28/2022 9:24 AM	30:00	6.35 pH	14.42 °C	169.15 µS/cm	3.40 mg/L	11.10 NTU	105.8 mV	16.70 ft	150.00 ml/min
1/28/2022 9:29 AM	35:00	6.33 pH	14.17 °C	170.98 µS/cm	3.29 mg/L	13.67 NTU	101.4 mV	17.10 ft	100.00 ml/min
1/28/2022 9:34 AM	40:00	6.33 pH	14.00 °C	171.87 µS/cm	3.34 mg/L	13.76 NTU	101.6 mV	17.42 ft	100.00 ml/min
1/28/2022 9:39 AM	45:00	6.34 pH	14.03 °C	170.84 µS/cm	3.36 mg/L	14.61 NTU	100.3 mV	17.42 ft	100.00 ml/min
1/28/2022 9:44 AM	50:00	6.35 pH	14.04 °C	172.64 µS/cm	3.29 mg/L	13.93 NTU	82.2 mV	18.00 ft	100.00 ml/min
1/28/2022 9:49 AM	55:00	6.34 pH	14.30 °C	170.68 µS/cm	3.22 mg/L	14.07 NTU	78.9 mV	18.25 ft	100.00 ml/min
1/28/2022 9:54 AM	01:00:00	6.33 pH	14.13 °C	171.73 µS/cm	3.15 mg/L	14.96 NTU	88.4 mV	18.50 ft	100.00 ml/min
1/28/2022 9:59 AM	01:05:00	6.35 pH	14.13 °C	170.55 µS/cm	3.11 mg/L	11.50 NTU	75.7 mV	18.72 ft	100.00 ml/min
1/28/2022 10:04 AM	01:10:00	6.34 pH	14.31 °C	172.61 µS/cm	3.02 mg/L	14.65 NTU	82.8 mV	19.00 ft	100.00 ml/min

1/28/2022 10:09 AM	01:15:00	6.35 pH	14.31 °C	171.60 µS/cm	2.97 mg/L	11.99 NTU	72.3 mV	19.20 ft	100.00 ml/min
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Samples

Sample ID:	Description:
DGWA-53	

Low-Flow Test Report:

Test Date / Time: 1/18/2022 4:00:59 PM

Project: Plant McDonough

Operator Name: Duane Fulton

Location Name: DGWA-70A Well Diameter: 2 ft Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.41 ft Total Depth: 62.41 ft Initial Depth to Water: 41.5 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 57 ft Pump Intake From TOC: 57 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear, 51

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	+/- 2	+/- 10	+/- 5	
1/18/2022 4:00 PM	00:00	7.49 pH	16.32 °C	72.07 µS/cm	8.65 mg/L	0.33 NTU	191.1 mV	41.75 ft	100.00 ml/min
1/18/2022 4:05 PM	05:00	5.49 pH	16.61 °C	70.62 µS/cm	4.94 mg/L	2.87 NTU	171.1 mV	41.75 ft	100.00 ml/min
1/18/2022 4:10 PM	10:00	5.50 pH	16.63 °C	70.10 µS/cm	4.82 mg/L	1.60 NTU	159.5 mV	41.76 ft	100.00 ml/min
1/18/2022 4:15 PM	15:00	5.48 pH	16.41 °C	70.76 µS/cm	4.79 mg/L	1.26 NTU	155.9 mV	41.78 ft	100.00 ml/min
1/18/2022 4:20 PM	20:00	5.49 pH	16.52 °C	71.55 µS/cm	4.77 mg/L	0.88 NTU	166.9 mV	41.78 ft	100.00 ml/min
1/18/2022 4:25 PM	25:00	5.50 pH	16.33 °C	71.69 µS/cm	4.76 mg/L	0.64 NTU	164.9 mV	41.78 ft	100.00 ml/min
1/18/2022 4:30 PM	30:00	5.50 pH	16.15 °C	71.60 µS/cm	4.78 mg/L	0.44 NTU	164.6 mV	41.78 ft	100.00 ml/min

Samples

Sample ID:	Description:
DGWA-70A	Groundwater Sample

Low-Flow Test Report:

Test Date / Time: 1/18/2022 4:05:01 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: DGWA-71 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.71 ft Total Depth: 47.71 ft Initial Depth to Water: 28.53 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 42 ft Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 2895 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 5	
1/18/2022 4:05 PM	00:00	5.59 pH	16.39 °C	126.50 µS/cm	1.37 mg/L	2.33 NTU	110.7 mV	28.53 ft	180.00 ml/min
1/18/2022 4:07 PM	02:02	5.55 pH	16.38 °C	129.27 µS/cm	1.24 mg/L	2.33 NTU	114.8 mV	28.57 ft	180.00 ml/min
1/18/2022 4:11 PM	06:02	5.52 pH	16.45 °C	127.58 µS/cm	1.35 mg/L	2.94 NTU	101.0 mV	28.57 ft	180.00 ml/min
1/18/2022 4:15 PM	10:02	5.51 pH	16.32 °C	127.60 µS/cm	1.22 mg/L	1.93 NTU	99.0 mV	28.57 ft	180.00 ml/min
1/18/2022 4:17 PM	12:05	5.51 pH	16.30 °C	128.62 µS/cm	1.20 mg/L	1.78 NTU	107.0 mV	28.57 ft	180.00 ml/min
1/18/2022 4:21 PM	16:05	5.51 pH	16.36 °C	128.78 µS/cm	1.11 mg/L	1.67 NTU	106.8 mV	28.57 ft	180.00 ml/min

Samples

Sample ID:	Description:
BGWA-71	Metals, TDS, Alkalinity, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 1/20/2022 12:44:06 PM

Project: Plant McDonough

Operator Name: Duane Fulton

Location Name: B-62 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.62 ft Total Depth: 39.62 ft Initial Depth to Water: 15.25 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 35 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 16850 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Rain, 45 Deg.

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	+/- 2	+/- 10	+/- 0.3	
1/20/2022 12:44 PM	00:00	6.93 pH	9.18 °C	534.18 µS/cm	7.45 mg/L	46.10 NTU	-14.3 mV	15.35 ft	150.00 ml/min
1/20/2022 12:49 PM	05:00	6.76 pH	13.40 °C	566.15 µS/cm	0.58 mg/L	10.78 NTU	-41.3 mV	15.38 ft	80.00 ml/min
1/20/2022 12:54 PM	10:00	6.69 pH	14.76 °C	542.20 µS/cm	0.78 mg/L	9.03 NTU	-26.2 mV	15.38 ft	80.00 ml/min
1/20/2022 12:59 PM	15:00	6.69 pH	14.56 °C	546.35 µS/cm	0.33 mg/L	11.90 NTU	-21.6 mV	15.38 ft	105.00 ml/min
1/20/2022 1:04 PM	20:00	6.68 pH	14.40 °C	543.15 µS/cm	0.30 mg/L	14.70 NTU	-13.5 mV	15.40 ft	105.00 ml/min
1/20/2022 1:09 PM	25:00	6.67 pH	14.36 °C	540.81 µS/cm	0.27 mg/L	18.10 NTU	-11.4 mV	15.40 ft	105.00 ml/min
1/20/2022 1:14 PM	30:00	6.65 pH	14.49 °C	537.67 µS/cm	0.24 mg/L	20.50 NTU	-15.5 mV	15.40 ft	105.00 ml/min
1/20/2022 1:19 PM	35:00	6.66 pH	14.72 °C	528.36 µS/cm	0.96 mg/L	25.20 NTU	-15.8 mV	15.40 ft	105.00 ml/min
1/20/2022 1:24 PM	40:00	6.66 pH	14.68 °C	527.87 µS/cm	0.72 mg/L	24.20 NTU	-14.3 mV	15.40 ft	105.00 ml/min
1/20/2022 1:29 PM	45:00	6.67 pH	13.95 °C	525.62 µS/cm	0.76 mg/L	28.30 NTU	-13.8 mV	15.38 ft	60.00 ml/min
1/20/2022 1:34 PM	50:00	6.67 pH	13.77 °C	537.48 µS/cm	0.39 mg/L	21.90 NTU	-13.4 mV	15.38 ft	75.00 ml/min
1/20/2022 1:39 PM	55:00	6.67 pH	13.86 °C	539.87 µS/cm	0.33 mg/L	20.90 NTU	-7.7 mV	15.40 ft	75.00 ml/min
1/20/2022 1:44 PM	01:00:00	6.67 pH	14.36 °C	528.32 µS/cm	0.76 mg/L	24.10 NTU	-14.5 mV	15.40 ft	75.00 ml/min

1/20/2022 1:49 PM	01:05:00	6.68 pH	14.33 °C	525.79 µS/cm	1.10 mg/L	21.60 NTU	-14.0 mV	15.40 ft	75.00 ml/min
1/20/2022 1:54 PM	01:10:00	6.68 pH	14.32 °C	526.98 µS/cm	0.92 mg/L	22.50 NTU	-13.1 mV	15.40 ft	75.00 ml/min
1/20/2022 1:59 PM	01:15:00	6.67 pH	13.99 °C	527.01 µS/cm	1.07 mg/L	22.00 NTU	-12.2 mV	15.40 ft	75.00 ml/min
1/20/2022 2:04 PM	01:20:00	6.66 pH	15.76 °C	529.73 µS/cm	0.72 mg/L	23.80 NTU	-14.9 mV	15.50 ft	150.00 ml/min
1/20/2022 2:09 PM	01:25:00	6.65 pH	16.11 °C	512.38 µS/cm	0.81 mg/L	37.50 NTU	-18.8 mV	15.50 ft	150.00 ml/min
1/20/2022 2:14 PM	01:30:00	6.60 pH	15.97 °C	465.61 µS/cm	0.95 mg/L	36.90 NTU	-20.7 mV	15.50 ft	150.00 ml/min
1/20/2022 2:19 PM	01:35:00	6.47 pH	15.90 °C	405.04 µS/cm	0.36 mg/L	28.10 NTU	-15.5 mV	15.50 ft	150.00 ml/min
1/20/2022 2:24 PM	01:40:00	6.43 pH	16.03 °C	368.65 µS/cm	0.88 mg/L	21.20 NTU	-16.7 mV	15.50 ft	150.00 ml/min
1/20/2022 2:29 PM	01:45:00	6.40 pH	16.06 °C	344.66 µS/cm	1.27 mg/L	15.80 NTU	-17.6 mV	15.50 ft	150.00 ml/min
1/20/2022 2:34 PM	01:50:00	6.37 pH	15.89 °C	331.11 µS/cm	1.04 mg/L	13.80 NTU	-15.3 mV	15.50 ft	150.00 ml/min
1/20/2022 2:39 PM	01:55:00	6.35 pH	15.85 °C	323.04 µS/cm	1.01 mg/L	12.30 NTU	-14.3 mV	15.50 ft	150.00 ml/min
1/20/2022 2:44 PM	02:00:00	6.34 pH	15.88 °C	318.63 µS/cm	1.10 mg/L	9.81 NTU	-14.9 mV	15.50 ft	150.00 ml/min
1/20/2022 2:49 PM	02:05:00	6.33 pH	15.98 °C	313.53 µS/cm	1.26 mg/L	6.89 NTU	-15.8 mV	15.48 ft	150.00 ml/min
1/20/2022 2:54 PM	02:10:00	6.32 pH	15.94 °C	306.04 µS/cm	1.30 mg/L	5.61 NTU	-17.0 mV	15.48 ft	150.00 ml/min
1/20/2022 2:59 PM	02:15:00	6.33 pH	15.89 °C	305.60 µS/cm	1.05 mg/L	4.79 NTU	-17.1 mV	15.48 ft	150.00 ml/min
1/20/2022 3:04 PM	02:20:00	6.32 pH	15.84 °C	304.59 µS/cm	1.07 mg/L	4.19 NTU	-16.6 mV	15.48 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-62	

Low-Flow Test Report:

Test Date / Time: 1/21/2022 9:47:37 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-100 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.93 ft Total Depth: 47.93 ft Initial Depth to Water: 33 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 42 ft Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.39 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/21/2022 9:47 AM	00:00	5.23 pH	15.35 °C	855.09 µS/cm	0.74 mg/L	12.20 NTU	77.1 mV	33.00 ft	150.00 ml/min
1/21/2022 9:52 AM	05:00	5.22 pH	16.20 °C	856.27 µS/cm	0.37 mg/L	10.95 NTU	61.1 mV	33.30 ft	150.00 ml/min
1/21/2022 9:57 AM	10:00	5.22 pH	16.38 °C	857.99 µS/cm	0.28 mg/L	8.89 NTU	52.3 mV	33.30 ft	150.00 ml/min
1/21/2022 10:02 AM	15:00	5.23 pH	16.65 °C	862.01 µS/cm	0.22 mg/L	8.87 NTU	48.5 mV	33.34 ft	150.00 ml/min
1/21/2022 10:07 AM	20:00	5.23 pH	16.69 °C	864.52 µS/cm	0.19 mg/L	5.87 NTU	42.0 mV	33.39 ft	150.00 ml/min
1/21/2022 10:12 AM	25:00	5.23 pH	16.89 °C	871.77 µS/cm	0.17 mg/L	4.06 NTU	37.8 mV	33.39 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-100	

Low-Flow Test Report:

Test Date / Time: 1/20/2022 10:28:13 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.42 ft Total Depth: 52.42 ft Initial Depth to Water: 28.96 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 47 ft Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.79 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/20/2022 10:28 AM	00:00	6.15 pH	16.49 °C	358.36 µS/cm	1.58 mg/L	12.50 NTU	155.2 mV	28.96 ft	300.00 ml/min
1/20/2022 10:33 AM	05:00	5.97 pH	16.99 °C	361.04 µS/cm	0.71 mg/L	10.93 NTU	153.6 mV	29.66 ft	300.00 ml/min
1/20/2022 10:38 AM	10:00	5.95 pH	16.78 °C	362.10 µS/cm	0.71 mg/L	8.20 NTU	151.0 mV	29.70 ft	300.00 ml/min
1/20/2022 10:43 AM	15:00	5.91 pH	16.86 °C	364.68 µS/cm	0.64 mg/L	7.52 NTU	166.1 mV	29.72 ft	300.00 ml/min
1/20/2022 10:48 AM	20:00	5.93 pH	16.74 °C	364.80 µS/cm	0.50 mg/L	5.66 NTU	165.2 mV	29.72 ft	300.00 ml/min
1/20/2022 10:53 AM	25:00	5.94 pH	16.74 °C	363.35 µS/cm	0.61 mg/L	4.98 NTU	161.2 mV	29.75 ft	300.00 ml/min
1/20/2022 10:58 AM	30:00	5.95 pH	16.65 °C	362.83 µS/cm	0.62 mg/L	4.22 NTU	157.8 mV	29.75 ft	300.00 ml/min
1/20/2022 11:03 AM	35:00	5.93 pH	16.94 °C	363.96 µS/cm	0.15 mg/L	4.26 NTU	156.9 mV	29.75 ft	300.00 ml/min

Samples

Sample ID:	Description:
DGWC-2	

Low-Flow Test Report:

Test Date / Time: 1/24/2022 12:50:24 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.71 ft Total Depth: 46.71 ft Initial Depth to Water: 24 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 41 ft Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.43 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/24/2022 12:50 PM	00:00	6.79 pH	19.39 °C	1,646.6 µS/cm	7.50 mg/L	0.65 NTU	-2.6 mV	24.00 ft	300.00 ml/min
1/24/2022 12:55 PM	05:00	5.89 pH	17.50 °C	1,923.6 µS/cm	0.99 mg/L	0.71 NTU	47.3 mV	24.40 ft	300.00 ml/min
1/24/2022 1:00 PM	10:00	5.82 pH	17.45 °C	1,983.4 µS/cm	0.64 mg/L	2.66 NTU	55.1 mV	24.43 ft	300.00 ml/min
1/24/2022 1:05 PM	15:00	5.80 pH	17.41 °C	1,994.8 µS/cm	0.47 mg/L	2.72 NTU	59.0 mV	24.43 ft	300.00 ml/min
1/24/2022 1:10 PM	20:00	5.79 pH	17.36 °C	2,004.0 µS/cm	0.42 mg/L	2.73 NTU	62.0 mV	24.43 ft	300.00 ml/min

Samples

Sample ID:	Description:
DGWC-4	

Low-Flow Test Report:

Test Date / Time: 1/24/2022 10:12:53 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.23 ft Total Depth: 33.23 ft Initial Depth to Water: 9.46 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 28 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/24/2022 10:12 AM	00:00	5.17 pH	16.39 °C	874.96 µS/cm	4.98 mg/L	1.86 NTU	173.6 mV	9.46 ft	300.00 ml/min
1/24/2022 10:17 AM	05:00	4.80 pH	16.53 °C	1,045.2 µS/cm	1.17 mg/L	1.78 NTU	481.5 mV	9.77 ft	300.00 ml/min
1/24/2022 10:22 AM	10:00	4.78 pH	16.69 °C	1,069.9 µS/cm	0.75 mg/L	1.80 NTU	537.2 mV	9.78 ft	300.00 ml/min
1/24/2022 10:27 AM	15:00	4.78 pH	16.91 °C	1,077.6 µS/cm	0.42 mg/L	1.38 NTU	538.3 mV	9.79 ft	300.00 ml/min
1/24/2022 10:32 AM	20:00	4.79 pH	16.85 °C	1,081.0 µS/cm	0.35 mg/L	1.50 NTU	503.2 mV	9.79 ft	300.00 ml/min

Samples

Sample ID:	Description:
DGWC-5	

Low-Flow Test Report:

Test Date / Time: 1/25/2022 11:25:50 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.33 ft Total Depth: 51.33 ft Initial Depth to Water: 39.45 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 46ft Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 4003 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: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/25/2022 11:25 AM	00:00	5.44 pH	19.10 °C	414.42 µS/cm	2.75 mg/L	1.78 NTU	125.5 mV	39.45 ft	200.00 ml/min
1/25/2022 11:30 AM	05:01	5.20 pH	18.17 °C	421.19 µS/cm	1.53 mg/L	4.15 NTU	118.1 mV	39.59 ft	200.00 ml/min
1/25/2022 11:35 AM	10:01	5.17 pH	18.31 °C	425.65 µS/cm	0.71 mg/L	3.13 NTU	108.3 mV	39.60 ft	200.00 ml/min
1/25/2022 11:40 AM	15:01	5.16 pH	18.42 °C	424.67 µS/cm	0.53 mg/L	2.70 NTU	104.9 mV	39.60 ft	200.00 ml/min
1/25/2022 11:45 AM	20:01	5.16 pH	18.44 °C	426.60 µS/cm	0.42 mg/L	1.94 NTU	120.0 mV	39.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
DGWC-8	

Low-Flow Test Report:

Test Date / Time: 1/26/2022 3:35:22 PM

Project: Plant McDonough

Operator Name: Duane Fulton

Location Name: DGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.73 ft Total Depth: 33.73 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 30 ft Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 21750 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Three well volumes. Blockage at 25 feet, above depth to water.

Weather Conditions:

Clear

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	+/- 2	+/- 10	+/- 0.3	
1/26/2022 3:35 PM	00:00	3.80 pH	14.77 °C	696.85 µS/cm	7.44 mg/L	7.52 NTU	192.3 mV		475.00 ml/min
1/26/2022 3:40 PM	05:00	3.87 pH	18.13 °C	688.71 µS/cm	4.18 mg/L	13.00 NTU	207.3 mV		475.00 ml/min
1/26/2022 3:45 PM	10:00	3.87 pH	18.26 °C	679.51 µS/cm	3.59 mg/L	10.58 NTU	272.6 mV		475.00 ml/min
1/26/2022 3:50 PM	15:00	3.87 pH	18.30 °C	681.45 µS/cm	3.38 mg/L	5.09 NTU	245.7 mV		475.00 ml/min
1/26/2022 3:55 PM	20:00	3.87 pH	18.28 °C	682.12 µS/cm	3.18 mg/L	7.09 NTU	258.6 mV		475.00 ml/min
1/26/2022 4:00 PM	25:00	3.87 pH	18.08 °C	678.80 µS/cm	3.01 mg/L	1.86 NTU	345.0 mV		475.00 ml/min
1/26/2022 4:05 PM	30:00	3.87 pH	18.05 °C	678.08 µS/cm	2.91 mg/L	1.35 NTU	279.9 mV		300.00 ml/min
1/26/2022 4:10 PM	35:00	3.88 pH	18.09 °C	679.20 µS/cm	2.84 mg/L	1.50 NTU	282.6 mV		300.00 ml/min
1/26/2022 4:15 PM	40:00	3.88 pH	18.08 °C	679.66 µS/cm	2.71 mg/L	1.28 NTU	285.5 mV		300.00 ml/min
1/26/2022 4:20 PM	45:00	3.88 pH	18.08 °C	678.55 µS/cm	2.66 mg/L	1.05 NTU	288.0 mV		300.00 ml/min
1/26/2022 4:25 PM	50:00	3.88 pH	18.08 °C	679.25 µS/cm	2.53 mg/L	1.23 NTU	376.2 mV		300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/26/2022 2:14:29 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.8 ft Total Depth: 47.8 ft Initial Depth to Water: 27.61 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 39.62 ft Pump Intake From TOC: 39.62 ft Estimated Total Volume Pumped: 3300 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/26/2022 2:14 PM	00:00	5.13 pH	13.62 °C	642.10 µS/cm	7.55 mg/L	10.42 NTU	186.7 mV	27.61 ft	220.00 ml/min
1/26/2022 2:19 PM	05:00	4.98 pH	17.37 °C	601.15 µS/cm	6.37 mg/L	1.66 NTU	182.5 mV	27.99 ft	220.00 ml/min
1/26/2022 2:24 PM	10:00	4.93 pH	17.72 °C	615.94 µS/cm	6.25 mg/L	1.64 NTU	224.6 mV	27.99 ft	220.00 ml/min
1/26/2022 2:29 PM	15:00	4.90 pH	17.68 °C	620.87 µS/cm	6.16 mg/L	1.85 NTU	210.1 mV	27.99 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/25/2022 2:55:16 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: DGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.72 ft Total Depth: 51.72 ft Initial Depth to Water: 11.78 ft	Pump Type: QED dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 47 ft Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: -0.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 2:55 PM	00:00	5.54 pH	18.57 °C	1,487.9 µS/cm	0.33 mg/L	8.92 NTU	79.8 mV	10.78 ft	150.00 ml/min
1/25/2022 2:59 PM	04:00	5.53 pH	18.37 °C	1,465.8 µS/cm	0.29 mg/L	4.73 NTU	80.4 mV	11.43 ft	150.00 ml/min
1/25/2022 3:03 PM	08:00	5.54 pH	18.26 °C	1,484.7 µS/cm	0.26 mg/L	2.72 NTU	80.6 mV	11.49 ft	150.00 ml/min
1/25/2022 3:07 PM	12:00	5.54 pH	18.29 °C	1,485.4 µS/cm	0.27 mg/L	2.75 NTU	80.7 mV	11.49 ft	150.00 ml/min
1/25/2022 3:11 PM	16:00	5.54 pH	18.23 °C	1,481.8 µS/cm	0.23 mg/L	2.71 NTU	81.0 mV	11.49 ft	150.00 ml/min

Samples

Sample ID:	Description:
DGWC-11	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/25/2022 9:59:43 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: DGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.24 ft Total Depth: 28.24 ft Initial Depth to Water: 8.39 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 23.24 ft Pump Intake From TOC: 23.24 ft Estimated Total Volume Pumped: 6869.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 9:59 AM	00:00	5.80 pH	16.99 °C	975.60 µS/cm	0.97 mg/L	99.70 NTU	53.7 mV	8.39 ft	160.00 ml/min
1/25/2022 10:03 AM	04:00	5.84 pH	16.99 °C	977.29 µS/cm	0.88 mg/L	33.30 NTU	44.9 mV	8.70 ft	160.00 ml/min
1/25/2022 10:07 AM	08:00	5.87 pH	17.03 °C	978.90 µS/cm	0.73 mg/L	20.10 NTU	39.2 mV	8.73 ft	160.00 ml/min
1/25/2022 10:11 AM	12:00	5.88 pH	17.08 °C	988.39 µS/cm	0.39 mg/L	18.90 NTU	33.7 mV	8.73 ft	160.00 ml/min
1/25/2022 10:15 AM	16:00	5.89 pH	17.09 °C	992.05 µS/cm	0.29 mg/L	15.40 NTU	28.5 mV	8.73 ft	160.00 ml/min
1/25/2022 10:19 AM	20:00	5.91 pH	17.10 °C	989.65 µS/cm	0.25 mg/L	12.60 NTU	23.0 mV	8.73 ft	160.00 ml/min
1/25/2022 10:22 AM	22:56	5.92 pH	17.15 °C	984.97 µS/cm	0.24 mg/L	10.40 NTU	19.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:26 AM	26:56	5.93 pH	17.08 °C	979.87 µS/cm	0.22 mg/L	9.53 NTU	15.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:30 AM	30:56	5.94 pH	17.17 °C	975.75 µS/cm	0.21 mg/L	8.73 NTU	12.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:34 AM	34:56	5.94 pH	17.17 °C	969.68 µS/cm	0.18 mg/L	5.87 NTU	9.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:38 AM	38:56	5.95 pH	17.17 °C	962.21 µS/cm	0.18 mg/L	5.16 NTU	6.8 mV	8.73 ft	160.00 ml/min
1/25/2022 10:42 AM	42:56	5.96 pH	17.24 °C	958.95 µS/cm	0.16 mg/L	4.67 NTU	4.1 mV	8.73 ft	160.00 ml/min

Samples

Sample ID:	Description:
DGWC-12	Metals, TDS, Inorganics, Alkalinity, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/25/2022 10:46:02 AM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.70 ft Total Depth: 46.70 ft Initial Depth to Water: 34.74 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 38.26 ft Pump Intake From TOC: 38.26 ft Estimated Total Volume Pumped: 5600 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/25/2022 10:46 AM	00:00	5.75 pH	15.06 °C	414.32 µS/cm	7.01 mg/L	0.28 NTU	104.2 mV	34.74 ft	280.00 ml/min
1/25/2022 10:51 AM	05:00	5.68 pH	18.26 °C	411.20 µS/cm	5.26 mg/L	1.03 NTU	85.5 mV	35.09 ft	280.00 ml/min
1/25/2022 10:56 AM	10:00	5.64 pH	18.43 °C	409.24 µS/cm	4.81 mg/L	0.84 NTU	102.6 mV	35.04 ft	280.00 ml/min
1/25/2022 11:01 AM	15:00	5.63 pH	18.59 °C	409.72 µS/cm	4.72 mg/L	0.17 NTU	80.8 mV	35.04 ft	280.00 ml/min
1/25/2022 11:06 AM	20:00	5.64 pH	18.80 °C	410.65 µS/cm	4.68 mg/L	0.19 NTU	78.3 mV	35.04 ft	280.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/25/2022 9:32:31 AM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.95 ft Total Depth: 37.95 ft Initial Depth to Water: 20.82 ft	Pump Type: dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 29.74 ft Pump Intake From TOC: 29.74 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/25/2022 9:32 AM	00:00	6.28 pH	13.86 °C	191.05 µS/cm	6.25 mg/L	2.78 NTU	130.8 mV	20.82 ft	240.00 ml/min
1/25/2022 9:37 AM	05:00	5.71 pH	16.11 °C	166.35 µS/cm	4.89 mg/L	1.67 NTU	107.2 mV	20.94 ft	240.00 ml/min
1/25/2022 9:42 AM	10:00	5.70 pH	16.37 °C	163.37 µS/cm	4.68 mg/L	2.59 NTU	98.5 mV	20.94 ft	240.00 ml/min
1/25/2022 9:47 AM	15:00	5.69 pH	16.42 °C	162.44 µS/cm	4.61 mg/L	3.04 NTU	94.0 mV	20.94 ft	240.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/24/2022 2:32:02 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: DGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 60.83 ft Total Depth: 70.83 ft Initial Depth to Water: 40.63 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 66 ft Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.81 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/24/2022 2:32 PM	00:00	6.22 pH	19.21 °C	781.62 µS/cm	0.62 mg/L	2.94 NTU	-3.7 mV	40.63 ft	160.00 ml/min
1/24/2022 2:36 PM	04:00	6.14 pH	19.04 °C	777.18 µS/cm	0.60 mg/L	2.23 NTU	1.4 mV	41.67 ft	160.00 ml/min
1/24/2022 2:40 PM	08:00	6.11 pH	18.79 °C	780.05 µS/cm	0.61 mg/L	1.38 NTU	5.5 mV	41.44 ft	160.00 ml/min
1/24/2022 2:44 PM	12:00	6.09 pH	18.73 °C	784.67 µS/cm	0.81 mg/L	1.22 NTU	8.6 mV	41.44 ft	160.00 ml/min
1/24/2022 2:48 PM	16:00	6.08 pH	18.68 °C	787.33 µS/cm	0.79 mg/L	0.74 NTU	11.0 mV	41.44 ft	160.00 ml/min
1/24/2022 2:52 PM	20:00	6.07 pH	18.43 °C	788.34 µS/cm	0.72 mg/L	0.55 NTU	12.8 mV	41.44 ft	160.00 ml/min
1/24/2022 2:56 PM	24:00	6.06 pH	18.33 °C	792.00 µS/cm	0.69 mg/L	0.78 NTU	14.1 mV	41.44 ft	160.00 ml/min

Samples

Sample ID:	Description:
DGWC-15	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/24/2022 2:21:05 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC 17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.95 ft Total Depth: 47.95 ft Initial Depth to Water: 36.01 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 39.69 ft Pump Intake From TOC: 39.69 ft Estimated Total Volume Pumped: 5500 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/24/2022 2:21 PM	00:00	5.52 pH	19.37 °C	565.66 µS/cm	6.03 mg/L	2.96 NTU	56.3 mV	36.01 ft	220.00 ml/min
1/24/2022 2:26 PM	05:00	5.21 pH	18.72 °C	592.09 µS/cm	1.90 mg/L	5.01 NTU	56.9 mV	36.17 ft	220.00 ml/min
1/24/2022 2:31 PM	10:00	5.16 pH	18.84 °C	603.98 µS/cm	0.84 mg/L	5.94 NTU	66.8 mV	36.17 ft	220.00 ml/min
1/24/2022 2:36 PM	15:00	5.15 pH	18.70 °C	603.58 µS/cm	0.53 mg/L	9.73 NTU	62.6 mV	36.17 ft	220.00 ml/min
1/24/2022 2:41 PM	20:00	5.14 pH	18.68 °C	604.66 µS/cm	0.44 mg/L	5.65 NTU	45.0 mV	36.17 ft	220.00 ml/min
1/24/2022 2:46 PM	25:00	5.15 pH	18.65 °C	603.24 µS/cm	0.40 mg/L	4.91 NTU	41.2 mV	36.17 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/25/2022 1:50:17 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.23 ft Total Depth: 43.23 ft Initial Depth to Water: 25.17 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 34.76 ft Pump Intake From TOC: 34.76 ft Estimated Total Volume Pumped: 15000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/25/2022 1:50 PM	00:00	4.58 pH	21.09 °C	774.38 µS/cm	3.67 mg/L	15.80 NTU	145.7 mV	25.17 ft	300.00 ml/min
1/25/2022 1:55 PM	05:00	4.72 pH	19.22 °C	788.79 µS/cm	0.87 mg/L	47.40 NTU	376.3 mV	25.45 ft	300.00 ml/min
1/25/2022 2:00 PM	10:00	4.76 pH	19.06 °C	789.99 µS/cm	0.40 mg/L	47.10 NTU	405.4 mV	25.50 ft	300.00 ml/min
1/25/2022 2:05 PM	15:00	4.77 pH	19.10 °C	789.76 µS/cm	0.25 mg/L	26.80 NTU	295.2 mV	25.50 ft	300.00 ml/min
1/25/2022 2:10 PM	20:00	4.77 pH	19.06 °C	791.35 µS/cm	0.21 mg/L	12.70 NTU	303.9 mV	25.50 ft	300.00 ml/min
1/25/2022 2:15 PM	25:00	4.77 pH	19.06 °C	795.10 µS/cm	0.19 mg/L	13.91 NTU	436.5 mV	25.50 ft	300.00 ml/min
1/25/2022 2:20 PM	30:00	4.78 pH	19.05 °C	792.88 µS/cm	0.18 mg/L	7.12 NTU	326.7 mV	25.50 ft	300.00 ml/min
1/25/2022 2:25 PM	35:00	4.78 pH	19.02 °C	793.49 µS/cm	0.18 mg/L	10.81 NTU	337.6 mV	25.50 ft	300.00 ml/min
1/25/2022 2:30 PM	40:00	4.79 pH	18.98 °C	795.04 µS/cm	0.18 mg/L	10.41 NTU	347.1 mV	25.50 ft	300.00 ml/min
1/25/2022 2:35 PM	45:00	4.79 pH	18.97 °C	795.87 µS/cm	0.17 mg/L	7.57 NTU	358.2 mV	25.50 ft	300.00 ml/min
1/25/2022 2:40 PM	50:00	4.79 pH	18.97 °C	799.57 µS/cm	0.17 mg/L	4.10 NTU	494.0 mV	25.50 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/21/2022 11:00:11 AM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.4 ft Total Depth: 43.4 ft Initial Depth to Water: 22.75 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 38 ft Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/21/2022 11:00 AM	00:00	4.57 pH	15.89 °C	963.22 µS/cm	0.39 mg/L	4.86 NTU	210.2 mV	22.75 ft	300.00 ml/min
1/21/2022 11:05 AM	05:00	4.47 pH	16.71 °C	985.22 µS/cm	0.28 mg/L	3.74 NTU	257.3 mV	24.05 ft	300.00 ml/min
1/21/2022 11:10 AM	10:00	4.46 pH	16.98 °C	973.01 µS/cm	0.22 mg/L	2.12 NTU	285.9 mV	24.15 ft	300.00 ml/min
1/21/2022 11:15 AM	15:00	4.47 pH	17.01 °C	964.43 µS/cm	0.18 mg/L	2.04 NTU	250.0 mV	24.15 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/20/2022 3:58:00 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.55 ft Total Depth: 72.55 ft Initial Depth to Water: 16.8 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 67 ft Pump Intake From TOC: 67 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 3:58 PM	00:00	5.82 pH	8.13 °C	591.11 µS/cm	2.24 mg/L	1.61 NTU	202.9 mV	16.80 ft	200.00 ml/min
1/20/2022 4:03 PM	05:00	5.77 pH	12.89 °C	662.30 µS/cm	0.43 mg/L	0.43 NTU	157.9 mV	17.05 ft	200.00 ml/min
1/20/2022 4:08 PM	10:00	5.74 pH	14.31 °C	675.69 µS/cm	0.40 mg/L	0.70 NTU	123.6 mV	17.06 ft	200.00 ml/min
1/20/2022 4:13 PM	15:00	5.73 pH	14.30 °C	676.92 µS/cm	0.27 mg/L	0.36 NTU	112.8 mV	17.06 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/20/2022 12:34:49 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DWGC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.45 ft Total Depth: 63.45 ft Initial Depth to Water: 20.68 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 58 ft Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 4000 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: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 12:34 PM	00:00	6.54 pH	10.35 °C	391.10 µS/cm	4.24 mg/L	4.34 NTU	37.9 mV	20.68 ft	200.00 ml/min
1/20/2022 12:39 PM	05:00	5.76 pH	14.89 °C	645.75 µS/cm	0.75 mg/L	5.56 NTU	94.9 mV	20.85 ft	200.00 ml/min
1/20/2022 12:44 PM	10:00	5.77 pH	15.84 °C	650.16 µS/cm	0.41 mg/L	2.65 NTU	91.9 mV	20.83 ft	200.00 ml/min
1/20/2022 12:49 PM	15:00	5.73 pH	16.06 °C	648.53 µS/cm	0.33 mg/L	1.54 NTU	74.8 mV	20.83 ft	200.00 ml/min
1/20/2022 12:54 PM	20:00	5.72 pH	15.71 °C	645.57 µS/cm	0.28 mg/L	1.11 NTU	76.2 mV	20.83 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/20/2022 10:30:02 AM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.26 ft Total Depth: 63.26 ft Initial Depth to Water: 19.61 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 54.63 ft Pump Intake From TOC: 54.63 ft Estimated Total Volume Pumped: 4539 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 1.8 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 10:30 AM	00:00	6.09 pH	12.99 °C	660.21 µS/cm	2.49 mg/L	6.91 NTU	69.5 mV	19.61 ft	180.00 ml/min
1/20/2022 10:35 AM	05:00	6.02 pH	15.30 °C	673.90 µS/cm	0.44 mg/L	3.29 NTU	77.8 mV	20.41 ft	180.00 ml/min
1/20/2022 10:40 AM	10:00	6.00 pH	15.53 °C	686.09 µS/cm	0.25 mg/L	1.42 NTU	102.3 mV	20.93 ft	180.00 ml/min
1/20/2022 10:45 AM	15:00	5.97 pH	15.66 °C	672.31 µS/cm	0.21 mg/L	1.12 NTU	81.6 mV	21.38 ft	180.00 ml/min
1/20/2022 10:50 AM	20:00	5.95 pH	15.66 °C	666.62 µS/cm	0.20 mg/L	0.90 NTU	81.6 mV	21.41 ft	180.00 ml/min
1/20/2022 10:50 AM	20:13	5.95 pH	15.66 °C	669.68 µS/cm	0.20 mg/L	0.90 NTU	92.3 mV	21.41 ft	180.00 ml/min
1/20/2022 10:55 AM	25:13	5.95 pH	15.61 °C	656.99 µS/cm	0.20 mg/L	1.08 NTU	80.1 mV	21.41 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/20/2022 2:12:52 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: DGWC-42 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.49 ft Total Depth: 52.49 ft Initial Depth to Water: 29.69 ft	Pump Type: Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 47 ft Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 2:12 PM	00:00	5.39 pH	12.85 °C	756.76 µS/cm	4.51 mg/L	7.16 NTU	81.4 mV	29.69 ft	200.00 ml/min
1/20/2022 2:17 PM	05:00	5.31 pH	16.85 °C	756.84 µS/cm	0.97 mg/L	5.67 NTU	99.1 mV	30.74 ft	200.00 ml/min
1/20/2022 2:22 PM	10:00	5.28 pH	17.06 °C	777.35 µS/cm	0.44 mg/L	2.86 NTU	127.7 mV	30.91 ft	200.00 ml/min
1/20/2022 2:27 PM	15:00	5.27 pH	17.18 °C	770.90 µS/cm	0.29 mg/L	2.93 NTU	96.3 mV	30.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/21/2022 8:54:01 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: DGWC-47 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.93 ft Total Depth: 31.93 ft Initial Depth to Water: 16.77 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 28 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 1.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/21/2022 8:54 AM	00:00	3.71 pH	12.04 °C	419.15 µS/cm	1.27 mg/L	2.51 NTU	167.3 mV	16.77 ft	175.00 ml/min
1/21/2022 8:58 AM	04:00	3.67 pH	13.21 °C	403.81 µS/cm	0.75 mg/L	1.93 NTU	173.5 mV	17.63 ft	175.00 ml/min
1/21/2022 9:02 AM	08:00	3.67 pH	13.04 °C	408.60 µS/cm	0.67 mg/L	1.43 NTU	185.8 mV	17.75 ft	175.00 ml/min
1/21/2022 9:06 AM	12:00	3.69 pH	12.97 °C	403.47 µS/cm	0.61 mg/L	3.84 NTU	197.8 mV	17.96 ft	175.00 ml/min
1/21/2022 9:10 AM	16:00	3.70 pH	13.10 °C	406.61 µS/cm	0.54 mg/L	2.67 NTU	209.0 mV	18.03 ft	175.00 ml/min
1/21/2022 9:14 AM	20:00	3.72 pH	13.06 °C	408.32 µS/cm	0.50 mg/L	2.36 NTU	219.9 mV	18.08 ft	175.00 ml/min

Samples

Sample ID:	Description:
DWGC-47	Metals, TDS, Inorganics, Alkalinity, Radium, extra volume

Low-Flow Test Report:

Test Date / Time: 1/24/2022 9:44:17 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: DWGC-48 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.49 ft Total Depth: 33.49 ft Initial Depth to Water: 14.02 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 29 ft Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/24/2022 9:44 AM	00:00	4.07 pH	17.70 °C	1,278.4 µS/cm	1.99 mg/L	1.58 NTU	106.5 mV	14.02 ft	200.00 ml/min
1/24/2022 9:48 AM	04:00	3.91 pH	17.72 °C	1,297.1 µS/cm	0.68 mg/L	1.62 NTU	140.8 mV	15.18 ft	200.00 ml/min
1/24/2022 9:52 AM	08:00	3.94 pH	17.83 °C	1,288.2 µS/cm	0.30 mg/L	1.21 NTU	213.8 mV	15.32 ft	200.00 ml/min
1/24/2022 9:56 AM	12:00	3.97 pH	17.94 °C	1,296.8 µS/cm	0.21 mg/L	1.06 NTU	286.9 mV	15.38 ft	200.00 ml/min
1/24/2022 10:00 AM	16:00	4.00 pH	17.90 °C	1,298.2 µS/cm	0.18 mg/L	1.00 NTU	305.6 mV	15.38 ft	200.00 ml/min
1/24/2022 10:04 AM	20:00	4.03 pH	17.93 °C	1,294.2 µS/cm	0.17 mg/L	0.54 NTU	303.2 mV	15.38 ft	200.00 ml/min

Samples

Sample ID:	Description:
DWGC-48	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/27/2022 9:23:34 AM

Project: Plant McDonough

Operator Name: Duane Fulton

Location Name: B-56 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.9 ft Total Depth: 47.9 ft Initial Depth to Water: 27.65 ft	Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 27575 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.94 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear, 35 Deg.

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	+/- 2	+/- 10	+/- 0.3	
1/27/2022 9:23 AM	00:00	5.64 pH	8.78 °C	545.86 µS/cm	6.01 mg/L	49.90 NTU	190.9 mV	27.80 ft	100.00 ml/min
1/27/2022 9:28 AM	05:00	4.69 pH	12.49 °C	551.83 µS/cm	1.41 mg/L	62.50 NTU	157.5 mV	27.88 ft	80.00 ml/min
1/27/2022 9:33 AM	10:00	4.74 pH	13.37 °C	544.43 µS/cm	1.97 mg/L	57.70 NTU	169.8 mV	27.92 ft	80.00 ml/min
1/27/2022 9:38 AM	15:00	4.76 pH	13.62 °C	543.60 µS/cm	2.42 mg/L	40.30 NTU	157.8 mV	27.92 ft	80.00 ml/min
1/27/2022 9:43 AM	20:00	4.76 pH	13.88 °C	538.20 µS/cm	2.75 mg/L	20.80 NTU	122.5 mV	27.94 ft	80.00 ml/min
1/27/2022 9:48 AM	25:00	4.76 pH	13.77 °C	539.33 µS/cm	3.03 mg/L	19.60 NTU	145.4 mV	27.95 ft	80.00 ml/min
1/27/2022 9:53 AM	30:00	4.76 pH	13.77 °C	537.26 µS/cm	3.38 mg/L	26.40 NTU	144.9 mV	27.95 ft	80.00 ml/min
1/27/2022 9:58 AM	35:00	4.75 pH	14.21 °C	538.60 µS/cm	3.55 mg/L	16.70 NTU	143.7 mV	27.97 ft	80.00 ml/min
1/27/2022 10:03 AM	40:00	4.76 pH	14.40 °C	534.22 µS/cm	3.67 mg/L	15.40 NTU	114.6 mV	28.01 ft	80.00 ml/min
1/27/2022 10:08 AM	45:00	4.77 pH	14.40 °C	526.26 µS/cm	3.66 mg/L	11.06 NTU	110.8 mV	27.99 ft	80.00 ml/min
1/27/2022 10:13 AM	50:00	4.76 pH	14.04 °C	532.42 µS/cm	3.41 mg/L	11.01 NTU	131.1 mV	27.95 ft	75.00 ml/min
1/27/2022 10:18 AM	55:00	4.76 pH	13.93 °C	531.84 µS/cm	3.67 mg/L	14.14 NTU	105.9 mV	27.95 ft	75.00 ml/min
1/27/2022 10:23 AM	01:00:00	4.76 pH	14.00 °C	533.39 µS/cm	3.83 mg/L	16.01 NTU	103.9 mV	27.94 ft	75.00 ml/min

1/27/2022 10:28 AM	01:05:00	4.76 pH	14.57 °C	539.01 µS/cm	4.05 mg/L	12.70 NTU	126.6 mV	27.94 ft	75.00 ml/min
1/27/2022 10:33 AM	01:10:00	4.77 pH	14.54 °C	530.82 µS/cm	4.03 mg/L	11.20 NTU	103.1 mV	27.95 ft	75.00 ml/min
1/27/2022 10:38 AM	01:15:00	4.76 pH	14.67 °C	532.21 µS/cm	3.98 mg/L	15.92 NTU	100.9 mV	27.95 ft	75.00 ml/min
1/27/2022 10:43 AM	01:20:00	4.77 pH	14.63 °C	531.32 µS/cm	4.04 mg/L	11.50 NTU	99.4 mV	27.95 ft	75.00 ml/min
1/27/2022 10:48 AM	01:25:00	4.76 pH	14.65 °C	534.19 µS/cm	4.02 mg/L	12.00 NTU	119.5 mV	27.95 ft	75.00 ml/min
1/27/2022 10:53 AM	01:30:00	4.77 pH	14.77 °C	533.70 µS/cm	4.19 mg/L	17.00 NTU	98.3 mV	27.95 ft	75.00 ml/min
1/27/2022 10:58 AM	01:35:00	4.77 pH	14.74 °C	536.16 µS/cm	4.20 mg/L	11.91 NTU	117.2 mV	27.95 ft	75.00 ml/min
1/27/2022 11:03 AM	01:40:00	4.77 pH	14.72 °C	532.86 µS/cm	4.21 mg/L	11.95 NTU	96.0 mV	27.95 ft	75.00 ml/min
1/27/2022 11:08 AM	01:45:00	4.77 pH	14.90 °C	537.64 µS/cm	4.27 mg/L	12.02 NTU	115.1 mV	27.95 ft	75.00 ml/min
1/27/2022 11:13 AM	01:50:00	4.78 pH	16.38 °C	547.88 µS/cm	5.49 mg/L	14.20 NTU	123.5 mV	28.38 ft	250.00 ml/min
1/27/2022 11:18 AM	01:55:00	4.77 pH	16.64 °C	543.72 µS/cm	4.79 mg/L	14.10 NTU	121.2 mV	28.45 ft	250.00 ml/min
1/27/2022 11:23 AM	02:00:00	4.75 pH	16.74 °C	544.95 µS/cm	4.42 mg/L	12.28 NTU	120.2 mV	28.50 ft	225.00 ml/min
1/27/2022 11:28 AM	02:05:00	4.74 pH	16.71 °C	542.30 µS/cm	4.18 mg/L	13.17 NTU	99.9 mV	28.52 ft	225.00 ml/min
1/27/2022 11:33 AM	02:10:00	4.73 pH	16.76 °C	547.02 µS/cm	4.03 mg/L	11.92 NTU	117.4 mV	28.54 ft	225.00 ml/min
1/27/2022 11:38 AM	02:15:00	4.73 pH	16.80 °C	543.44 µS/cm	3.97 mg/L	11.05 NTU	98.2 mV	28.55 ft	225.00 ml/min
1/27/2022 11:43 AM	02:20:00	4.73 pH	16.83 °C	546.05 µS/cm	3.90 mg/L	11.56 NTU	117.5 mV	28.57 ft	225.00 ml/min
1/27/2022 11:48 AM	02:25:00	4.73 pH	16.83 °C	545.97 µS/cm	3.83 mg/L	11.00 NTU	118.4 mV	28.57 ft	225.00 ml/min
1/27/2022 11:53 AM	02:30:00	4.72 pH	16.87 °C	544.48 µS/cm	3.82 mg/L	12.40 NTU	99.1 mV	28.58 ft	225.00 ml/min
1/27/2022 11:58 AM	02:35:00	4.72 pH	16.88 °C	547.02 µS/cm	3.77 mg/L	13.10 NTU	117.9 mV	28.58 ft	225.00 ml/min
1/27/2022 12:03 PM	02:40:00	4.71 pH	16.96 °C	551.12 µS/cm	3.86 mg/L	9.22 NTU	120.5 mV	28.58 ft	225.00 ml/min
1/27/2022 12:08 PM	02:45:00	4.71 pH	17.06 °C	547.46 µS/cm	3.72 mg/L	8.28 NTU	100.9 mV	28.59 ft	225.00 ml/min
1/27/2022 12:13 PM	02:50:00	4.71 pH	17.51 °C	545.34 µS/cm	3.65 mg/L	8.11 NTU	120.2 mV	28.59 ft	225.00 ml/min
1/27/2022 12:18 PM	02:55:00	4.71 pH	17.76 °C	544.48 µS/cm	3.63 mg/L	7.82 NTU	123.8 mV	28.59 ft	225.00 ml/min
1/27/2022 12:23 PM	03:00:00	4.71 pH	17.55 °C	547.02 µS/cm	3.71 mg/L	6.44 NTU	123.7 mV	28.59 ft	225.00 ml/min
1/27/2022 12:28 PM	03:05:00	4.71 pH	17.21 °C	547.92 µS/cm	3.70 mg/L	6.31 NTU	124.4 mV	28.59 ft	225.00 ml/min
1/27/2022 12:33 PM	03:10:00	4.70 pH	17.32 °C	547.44 µS/cm	3.74 mg/L	5.32 NTU	104.9 mV	28.59 ft	225.00 ml/min
1/27/2022 12:38 PM	03:15:00	4.70 pH	17.26 °C	545.98 µS/cm	3.68 mg/L	4.96 NTU	104.4 mV	28.59 ft	225.00 ml/min

Samples

Sample ID:	Description:
B-56	

Low-Flow Test Report:

Test Date / Time: 1/20/2022 9:49:42 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-63 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.15 ft Total Depth: 46.15 ft Initial Depth to Water: 27.7 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 41 ft Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 19920 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/20/2022 9:49 AM	00:00	5.53 pH	18.46 °C	285.20 µS/cm	0.22 mg/L	22.70 NTU	85.6 mV	27.70 ft	180.00 ml/min
1/20/2022 9:53 AM	04:00	5.53 pH	18.30 °C	283.25 µS/cm	0.19 mg/L	19.70 NTU	81.8 mV	28.72 ft	180.00 ml/min
1/20/2022 9:57 AM	08:00	5.52 pH	18.27 °C	282.87 µS/cm	0.17 mg/L	18.90 NTU	78.6 mV	28.73 ft	180.00 ml/min
1/20/2022 10:01 AM	12:00	5.53 pH	18.28 °C	281.80 µS/cm	0.15 mg/L	18.60 NTU	76.0 mV	28.74 ft	180.00 ml/min
1/20/2022 10:05 AM	16:00	5.52 pH	18.26 °C	281.49 µS/cm	0.13 mg/L	17.90 NTU	73.4 mV	28.78 ft	180.00 ml/min
1/20/2022 10:09 AM	20:00	5.53 pH	18.33 °C	281.56 µS/cm	0.12 mg/L	15.70 NTU	70.4 mV	28.83 ft	180.00 ml/min
1/20/2022 10:13 AM	24:00	5.53 pH	18.28 °C	282.50 µS/cm	0.10 mg/L	16.60 NTU	68.2 mV	28.87 ft	180.00 ml/min
1/20/2022 10:17 AM	28:00	5.53 pH	18.17 °C	283.76 µS/cm	0.09 mg/L	16.30 NTU	66.5 mV	28.90 ft	180.00 ml/min
1/20/2022 10:21 AM	32:00	5.54 pH	18.11 °C	283.18 µS/cm	0.13 mg/L	16.60 NTU	66.0 mV	28.93 ft	180.00 ml/min
1/20/2022 10:25 AM	36:00	5.53 pH	18.15 °C	284.38 µS/cm	0.11 mg/L	15.90 NTU	63.0 mV	28.95 ft	180.00 ml/min
1/20/2022 10:29 AM	40:00	5.54 pH	18.15 °C	284.29 µS/cm	0.10 mg/L	18.50 NTU	61.6 mV	28.95 ft	180.00 ml/min
1/20/2022 10:33 AM	44:00	5.53 pH	17.88 °C	283.27 µS/cm	0.10 mg/L	17.60 NTU	60.6 mV	28.95 ft	180.00 ml/min
1/20/2022 10:37 AM	48:00	5.53 pH	17.88 °C	282.71 µS/cm	0.09 mg/L	18.30 NTU	59.9 mV	28.82 ft	150.00 ml/min
1/20/2022 10:41 AM	52:00	5.53 pH	17.92 °C	283.76 µS/cm	0.09 mg/L	13.10 NTU	58.8 mV	28.82 ft	150.00 ml/min

1/20/2022 10:45 AM	56:00	5.54 pH	17.95 °C	282.82 µS/cm	0.09 mg/L	13.80 NTU	57.6 mV	28.82 ft	150.00 ml/min
1/20/2022 10:49 AM	01:00:00	5.54 pH	17.95 °C	282.81 µS/cm	0.08 mg/L	13.20 NTU	56.4 mV	28.82 ft	150.00 ml/min
1/20/2022 10:53 AM	01:04:00	5.54 pH	17.92 °C	282.03 µS/cm	0.08 mg/L	12.20 NTU	55.5 mV	28.84 ft	150.00 ml/min
1/20/2022 10:57 AM	01:08:00	5.54 pH	17.92 °C	282.01 µS/cm	0.07 mg/L	12.60 NTU	54.8 mV	28.84 ft	150.00 ml/min
1/20/2022 11:01 AM	01:12:00	5.54 pH	17.84 °C	282.26 µS/cm	0.07 mg/L	13.10 NTU	53.6 mV	28.84 ft	150.00 ml/min
1/20/2022 11:05 AM	01:16:00	5.54 pH	17.84 °C	281.27 µS/cm	0.07 mg/L	13.40 NTU	52.6 mV	28.84 ft	150.00 ml/min
1/20/2022 11:09 AM	01:20:00	5.54 pH	17.79 °C	281.30 µS/cm	0.07 mg/L	13.20 NTU	51.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:13 AM	01:24:00	5.55 pH	17.84 °C	281.50 µS/cm	0.06 mg/L	12.80 NTU	50.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:17 AM	01:28:00	5.55 pH	17.79 °C	281.03 µS/cm	0.06 mg/L	12.05 NTU	49.8 mV	28.84 ft	150.00 ml/min
1/20/2022 11:21 AM	01:32:00	5.55 pH	17.82 °C	280.29 µS/cm	0.06 mg/L	11.90 NTU	49.0 mV	28.84 ft	150.00 ml/min
1/20/2022 11:25 AM	01:36:00	5.54 pH	17.80 °C	281.04 µS/cm	0.06 mg/L	10.11 NTU	48.2 mV	28.84 ft	150.00 ml/min
1/20/2022 11:29 AM	01:40:00	5.55 pH	17.79 °C	279.88 µS/cm	0.05 mg/L	8.11 NTU	47.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:33 AM	01:44:00	5.55 pH	17.70 °C	279.64 µS/cm	0.05 mg/L	8.16 NTU	46.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:37 AM	01:48:00	5.55 pH	17.73 °C	279.67 µS/cm	0.06 mg/L	9.02 NTU	46.0 mV	28.84 ft	150.00 ml/min
1/20/2022 11:41 AM	01:52:00	5.55 pH	17.80 °C	279.85 µS/cm	0.05 mg/L	6.47 NTU	45.2 mV	28.84 ft	150.00 ml/min
1/20/2022 11:45 AM	01:56:00	5.55 pH	17.75 °C	278.75 µS/cm	0.05 mg/L	6.80 NTU	44.4 mV	28.84 ft	150.00 ml/min
1/20/2022 11:49 AM	02:00:00	5.55 pH	17.79 °C	278.90 µS/cm	0.05 mg/L	4.87 NTU	43.5 mV	28.84 ft	150.00 ml/min
1/20/2022 11:53 AM	02:04:00	5.46 pH	17.66 °C	133.88 µS/cm	7.41 mg/L	4.87 NTU	64.6 mV	28.84 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-63	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/25/2022 11:51:21 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-66 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.99 ft Total Depth: 57.99 ft Initial Depth to Water: 17.6 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 53 ft Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 2.82 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1 liter

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 11:51 AM	00:00	6.27 pH	19.73 °C	1,517.4 µS/cm	0.40 mg/L	3.31 NTU	6.4 mV	17.60 ft	180.00 ml/min
1/25/2022 11:55 AM	04:00	6.31 pH	18.71 °C	1,560.0 µS/cm	0.24 mg/L	2.23 NTU	-2.9 mV	19.41 ft	180.00 ml/min
1/25/2022 11:59 AM	08:00	6.33 pH	18.59 °C	1,562.4 µS/cm	0.20 mg/L	2.44 NTU	-8.2 mV	20.20 ft	180.00 ml/min
1/25/2022 12:03 PM	12:00	6.34 pH	18.64 °C	1,559.5 µS/cm	0.17 mg/L	2.11 NTU	-11.8 mV	20.34 ft	180.00 ml/min
1/25/2022 12:07 PM	16:00	6.35 pH	18.78 °C	1,556.0 µS/cm	0.16 mg/L	2.26 NTU	-14.5 mV	20.42 ft	180.00 ml/min

Samples

Sample ID:	Description:
B-66	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/20/2022 1:27:24 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-77 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.46 ft Total Depth: 43.46 ft Initial Depth to Water: 28.76 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 38 ft Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/20/2022 1:27 PM	00:00	6.21 pH	18.02 °C	395.10 µS/cm	0.26 mg/L	12.10 NTU	-39.8 mV	28.76 ft	150.00 ml/min
1/20/2022 1:31 PM	04:00	6.28 pH	17.66 °C	407.79 µS/cm	0.27 mg/L	8.40 NTU	-59.1 mV	30.01 ft	150.00 ml/min
1/20/2022 1:35 PM	08:00	6.33 pH	17.52 °C	412.53 µS/cm	0.39 mg/L	10.40 NTU	-69.9 mV	30.01 ft	150.00 ml/min
1/20/2022 1:39 PM	12:00	6.37 pH	17.39 °C	416.89 µS/cm	0.33 mg/L	12.10 NTU	-73.4 mV	30.01 ft	150.00 ml/min
1/20/2022 1:43 PM	16:00	6.41 pH	17.30 °C	421.50 µS/cm	0.32 mg/L	11.60 NTU	-75.8 mV	30.01 ft	150.00 ml/min
1/20/2022 1:47 PM	20:00	6.43 pH	17.26 °C	418.32 µS/cm	0.24 mg/L	8.11 NTU	-77.0 mV	30.01 ft	150.00 ml/min
1/20/2022 1:51 PM	24:00	6.45 pH	17.17 °C	417.43 µS/cm	0.26 mg/L	6.47 NTU	-77.3 mV	30.01 ft	150.00 ml/min
1/20/2022 1:55 PM	28:00	6.46 pH	17.13 °C	417.71 µS/cm	0.21 mg/L	5.97 NTU	-77.8 mV	30.01 ft	150.00 ml/min
1/20/2022 1:59 PM	32:00	6.46 pH	17.25 °C	419.88 µS/cm	0.20 mg/L	5.50 NTU	-78.5 mV	30.01 ft	150.00 ml/min
1/20/2022 2:03 PM	36:00	6.47 pH	17.35 °C	418.48 µS/cm	0.19 mg/L	5.12 NTU	-78.6 mV	30.01 ft	150.00 ml/min
1/20/2022 2:07 PM	40:00	6.48 pH	17.35 °C	417.83 µS/cm	0.20 mg/L	4.62 NTU	-78.5 mV	30.01 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/25/2022 1:10:16 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-82 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.65 ft Total Depth: 47.65 ft Initial Depth to Water: 12.76 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 42 ft Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 4480 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 1.6 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 1:10 PM	00:00	5.85 pH	21.31 °C	1,677.1 µS/cm	1.66 mg/L	3.94 NTU	33.5 mV	12.76 ft	160.00 ml/min
1/25/2022 1:14 PM	04:00	5.34 pH	19.13 °C	1,784.9 µS/cm	0.96 mg/L	1.71 NTU	57.1 mV	13.90 ft	160.00 ml/min
1/25/2022 1:18 PM	08:00	5.24 pH	18.88 °C	1,816.9 µS/cm	0.89 mg/L	0.81 NTU	66.2 mV	14.05 ft	160.00 ml/min
1/25/2022 1:22 PM	12:00	5.17 pH	18.94 °C	1,874.0 µS/cm	0.84 mg/L	0.87 NTU	70.9 mV	14.20 ft	160.00 ml/min
1/25/2022 1:26 PM	16:00	5.13 pH	18.93 °C	1,874.7 µS/cm	0.80 mg/L	1.37 NTU	73.5 mV	14.30 ft	160.00 ml/min
1/25/2022 1:30 PM	20:00	5.10 pH	18.91 °C	1,888.7 µS/cm	0.79 mg/L	1.22 NTU	74.7 mV	14.34 ft	160.00 ml/min
1/25/2022 1:34 PM	24:00	5.09 pH	18.94 °C	1,880.3 µS/cm	0.77 mg/L	0.70 NTU	75.4 mV	14.35 ft	160.00 ml/min
1/25/2022 1:38 PM	28:00	5.07 pH	18.86 °C	1,905.1 µS/cm	0.76 mg/L	0.85 NTU	76.0 mV	14.36 ft	160.00 ml/min

Samples

Sample ID:	Description:
B-82	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/21/2022 11:27:40 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-83 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.9 ft Total Depth: 48.9 ft Initial Depth to Water: 30.48 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 44 ft Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 7266 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/21/2022 11:27 AM	00:00	5.68 pH	9.99 °C	386.14 µS/cm	5.69 mg/L	3.56 NTU	91.2 mV	30.48 ft	200.00 ml/min
1/21/2022 11:32 AM	05:00	5.58 pH	17.11 °C	389.14 µS/cm	2.03 mg/L	2.34 NTU	114.5 mV	30.66 ft	200.00 ml/min
1/21/2022 11:37 AM	10:00	5.56 pH	17.59 °C	384.73 µS/cm	1.85 mg/L	1.51 NTU	126.6 mV	30.67 ft	200.00 ml/min
1/21/2022 11:42 AM	15:00	5.55 pH	17.83 °C	370.75 µS/cm	0.99 mg/L	1.20 NTU	137.6 mV	30.67 ft	200.00 ml/min
1/21/2022 11:47 AM	20:00	5.55 pH	17.89 °C	365.56 µS/cm	0.83 mg/L	1.17 NTU	140.5 mV	30.70 ft	200.00 ml/min
1/21/2022 11:52 AM	25:00	5.55 pH	18.00 °C	370.17 µS/cm	0.75 mg/L	1.04 NTU	144.2 mV	30.70 ft	200.00 ml/min
1/21/2022 11:54 AM	26:20	5.55 pH	18.03 °C	366.61 µS/cm	0.74 mg/L	1.04 NTU	142.9 mV	30.70 ft	200.00 ml/min
1/21/2022 11:59 AM	31:20	5.55 pH	17.90 °C	371.69 µS/cm	0.65 mg/L	1.68 NTU	178.6 mV	30.70 ft	200.00 ml/min
1/21/2022 12:04 PM	36:20	5.56 pH	18.08 °C	375.20 µS/cm	0.59 mg/L	0.97 NTU	152.0 mV	30.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-83	

Low-Flow Test Report:

Test Date / Time: 1/27/2022 10:55:56 AM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: B-88 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 65.06 ft Total Depth: 75.06 ft Initial Depth to Water: 36.39 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 70 ft Pump Intake From TOC: 70 ft Estimated Total Volume Pumped: 30682 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.11 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/27/2022 10:55 AM	00:00	6.16 pH	12.33 °C	816.33 µS/cm	2.67 mg/L	64.50 NTU	44.4 mV	36.39 ft	220.00 ml/min
1/27/2022 11:00 AM	05:00	5.58 pH	16.31 °C	872.40 µS/cm	0.45 mg/L	73.70 NTU	69.6 mV	36.50 ft	220.00 ml/min
1/27/2022 11:05 AM	10:00	5.55 pH	16.74 °C	888.56 µS/cm	0.39 mg/L	56.40 NTU	73.8 mV	36.54 ft	220.00 ml/min
1/27/2022 11:10 AM	15:00	5.54 pH	16.87 °C	888.70 µS/cm	0.34 mg/L	47.50 NTU	75.5 mV	36.54 ft	220.00 ml/min
1/27/2022 11:15 AM	20:00	5.54 pH	16.96 °C	887.48 µS/cm	0.29 mg/L	28.90 NTU	76.1 mV	36.54 ft	220.00 ml/min
1/27/2022 11:20 AM	25:00	5.53 pH	17.00 °C	886.46 µS/cm	0.27 mg/L	24.90 NTU	76.6 mV	36.54 ft	220.00 ml/min
1/27/2022 11:25 AM	30:00	5.53 pH	17.04 °C	888.16 µS/cm	0.23 mg/L	21.00 NTU	76.5 mV	36.54 ft	220.00 ml/min
1/27/2022 11:30 AM	35:00	5.53 pH	17.08 °C	888.12 µS/cm	0.22 mg/L	16.20 NTU	76.5 mV	36.54 ft	220.00 ml/min
1/27/2022 11:35 AM	40:00	5.52 pH	17.06 °C	886.75 µS/cm	0.20 mg/L	14.50 NTU	76.3 mV	36.54 ft	220.00 ml/min
1/27/2022 11:40 AM	45:00	5.52 pH	17.09 °C	890.32 µS/cm	0.18 mg/L	13.30 NTU	75.7 mV	36.54 ft	220.00 ml/min
1/27/2022 11:45 AM	50:00	5.52 pH	17.15 °C	890.69 µS/cm	0.18 mg/L	10.08 NTU	75.2 mV	36.54 ft	220.00 ml/min
1/27/2022 11:50 AM	55:00	5.51 pH	17.15 °C	891.50 µS/cm	0.16 mg/L	8.30 NTU	75.3 mV	36.54 ft	220.00 ml/min
1/27/2022 11:55 AM	01:00:00	5.51 pH	17.23 °C	896.33 µS/cm	0.14 mg/L	9.34 NTU	89.3 mV	36.54 ft	220.00 ml/min
1/27/2022 12:00 PM	01:05:00	5.51 pH	17.26 °C	893.53 µS/cm	0.12 mg/L	10.27 NTU	76.1 mV	36.54 ft	220.00 ml/min
1/27/2022 12:05 PM	01:10:00	5.51 pH	17.72 °C	887.19 µS/cm	0.11 mg/L		75.9 mV	36.54 ft	220.00 ml/min

1/27/2022 12:10 PM	01:14:49	5.51 pH	18.03 °C	884.20 µS/cm	0.13 mg/L		90.0 mV	36.54 ft	220.00 ml/min
1/27/2022 12:55 PM	01:59:28	5.50 pH	18.85 °C	873.01 µS/cm	0.23 mg/L	10.21 NTU	71.3 mV	36.50 ft	220.00 ml/min
1/27/2022 1:00 PM	02:04:28	5.50 pH	18.77 °C	887.60 µS/cm	0.15 mg/L	8.60 NTU	65.1 mV	36.50 ft	220.00 ml/min
1/27/2022 1:05 PM	02:09:28	5.50 pH	18.79 °C	883.82 µS/cm	0.13 mg/L	7.93 NTU	58.3 mV	36.50 ft	220.00 ml/min
1/27/2022 1:10 PM	02:14:28	5.50 pH	18.65 °C	881.82 µS/cm	0.12 mg/L	8.05 NTU	55.4 mV	36.50 ft	220.00 ml/min
1/27/2022 1:15 PM	02:19:28	5.50 pH	18.78 °C	884.11 µS/cm	0.11 mg/L	3.92 NTU	53.3 mV	36.50 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/26/2022 11:33:37 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-92 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 14.6 ft Total Depth: 24.6 ft Initial Depth to Water: 5.18 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 19 ft Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 3800 ml Flow Cell Volume: 90 ml Final Flow Rate: 190 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 11:33 AM	00:00	4.49 pH	15.74 °C	1,824.9 µS/cm	0.21 mg/L	7.10 NTU	251.0 mV	5.18 ft	190.00 ml/min
1/26/2022 11:37 AM	04:00	4.49 pH	16.10 °C	1,671.2 µS/cm	0.16 mg/L	1.80 NTU	278.6 mV	5.32 ft	190.00 ml/min
1/26/2022 11:41 AM	08:00	4.49 pH	16.32 °C	1,685.1 µS/cm	0.13 mg/L	1.68 NTU	297.6 mV	5.32 ft	190.00 ml/min
1/26/2022 11:45 AM	12:00	4.49 pH	16.33 °C	1,689.8 µS/cm	0.12 mg/L	0.77 NTU	319.6 mV	5.32 ft	190.00 ml/min
1/26/2022 11:49 AM	16:00	4.49 pH	16.41 °C	1,691.4 µS/cm	0.12 mg/L	0.55 NTU	330.3 mV	5.32 ft	190.00 ml/min
1/26/2022 11:53 AM	20:00	4.50 pH	16.61 °C	1,683.4 µS/cm	0.11 mg/L	0.42 NTU	342.4 mV	5.32 ft	190.00 ml/min

Samples

Sample ID:	Description:
B-92	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/26/2022 10:30:44 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-93 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19 ft Total Depth: 29 ft Initial Depth to Water: 7.36 ft	Pump Type: peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 24 ft Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.64 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 10:30 AM	00:00	4.71 pH	17.71 °C	2,256.2 µS/cm	0.54 mg/L	2.88 NTU	126.8 mV	7.36 ft	200.00 ml/min
1/26/2022 10:34 AM	04:00	4.71 pH	18.20 °C	2,260.3 µS/cm	0.45 mg/L	4.00 NTU	155.3 mV	7.91 ft	200.00 ml/min
1/26/2022 10:38 AM	08:00	4.73 pH	18.24 °C	2,244.8 µS/cm	0.48 mg/L	3.72 NTU	185.8 mV	7.96 ft	200.00 ml/min
1/26/2022 10:42 AM	12:00	4.74 pH	18.33 °C	2,246.1 µS/cm	0.64 mg/L	4.60 NTU	213.2 mV	7.98 ft	200.00 ml/min
1/26/2022 10:46 AM	16:00	4.74 pH	18.41 °C	2,232.4 µS/cm	0.71 mg/L	3.80 NTU	244.6 mV	8.00 ft	200.00 ml/min
1/26/2022 10:48 AM	18:00	4.74 pH	18.24 °C	2,242.6 µS/cm	0.86 mg/L	3.80 NTU	276.7 mV	8.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-93	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/26/2022 1:59:07 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-97 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.71 ft Total Depth: 30.71 ft Initial Depth to Water: 5.42 ft	Pump Type: peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 25 ft Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 3040 ml Flow Cell Volume: 90 ml Final Flow Rate: 190 ml/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 1:59 PM	00:00	5.53 pH	17.35 °C	2,709.6 µS/cm	0.24 mg/L	1.35 NTU	171.9 mV	5.42 ft	190.00 ml/min
1/26/2022 2:03 PM	04:00	5.52 pH	17.54 °C	2,656.5 µS/cm	0.16 mg/L	0.45 NTU	198.8 mV	5.61 ft	190.00 ml/min
1/26/2022 2:07 PM	08:00	5.52 pH	17.57 °C	2,662.8 µS/cm	0.12 mg/L	0.31 NTU	222.5 mV	5.61 ft	190.00 ml/min
1/26/2022 2:11 PM	12:00	5.52 pH	17.54 °C	2,655.9 µS/cm	0.10 mg/L	0.23 NTU	244.5 mV	5.61 ft	190.00 ml/min
1/26/2022 2:15 PM	16:00	5.52 pH	17.38 °C	2,663.6 µS/cm	0.09 mg/L	0.15 NTU	262.0 mV	5.61 ft	190.00 ml/min

Samples

Sample ID:	Description:
B-97	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/26/2022 12:46:25 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-98 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9.01 ft Total Depth: 19.01 ft Initial Depth to Water: 8.26 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 14 ft Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 5320 ml Flow Cell Volume: 90 ml Final Flow Rate: 190 ml/min Final Draw Down: 0.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 12:46 PM	00:00	6.23 pH	16.81 °C	399.62 µS/cm	3.27 mg/L	29.90 NTU	159.1 mV	8.26 ft	190.00 ml/min
1/26/2022 12:50 PM	04:00	6.45 pH	17.62 °C	386.38 µS/cm	3.16 mg/L	31.30 NTU	151.9 mV	8.53 ft	190.00 ml/min
1/26/2022 12:54 PM	08:00	6.50 pH	17.77 °C	380.06 µS/cm	2.77 mg/L	20.40 NTU	147.6 mV	8.58 ft	190.00 ml/min
1/26/2022 12:58 PM	12:00	6.53 pH	17.57 °C	381.47 µS/cm	2.59 mg/L	11.61 NTU	142.5 mV	8.71 ft	190.00 ml/min
1/26/2022 1:02 PM	16:00	6.52 pH	17.97 °C	384.62 µS/cm	2.45 mg/L	8.30 NTU	139.4 mV	8.81 ft	190.00 ml/min
1/26/2022 1:06 PM	20:00	6.51 pH	17.97 °C	385.27 µS/cm	2.43 mg/L	7.60 NTU	137.2 mV	8.90 ft	190.00 ml/min
1/26/2022 1:10 PM	24:00	6.52 pH	17.80 °C	391.48 µS/cm	2.34 mg/L	4.15 NTU	134.9 mV	8.91 ft	190.00 ml/min
1/26/2022 1:14 PM	28:00	6.52 pH	17.71 °C	396.52 µS/cm	2.27 mg/L	3.94 NTU	133.1 mV	8.91 ft	190.00 ml/min

Samples

Sample ID:	Description:
B-98	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/26/2022 12:33:06 PM

Project: Plant McDonough

Operator Name: Duane Fulton

Location Name: B-101D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 64.9 ft Total Depth: 74.9 ft Initial Depth to Water: 30.09 ft	Pump Type: Dedicated Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 69.09 ft Pump Intake From TOC: 69.09 ft Estimated Total Volume Pumped: 5500 ml Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 2.81 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Weather Conditions:

Clear, 49 Deg.

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	+/- 2	+/- 10	+/- 0.3	
1/26/2022 12:33 PM	00:00	6.80 pH	14.51 °C	481.88 µS/cm	5.19 mg/L	11.10 NTU	77.1 mV	29.50 ft	250.00 ml/min
1/26/2022 12:38 PM	05:00	5.90 pH	16.48 °C	473.59 µS/cm	0.77 mg/L	10.50 NTU	92.7 mV	30.52 ft	100.00 ml/min
1/26/2022 12:43 PM	10:00	5.88 pH	15.08 °C	482.89 µS/cm	0.97 mg/L	14.35 NTU	114.1 mV	30.85 ft	100.00 ml/min
1/26/2022 12:48 PM	15:00	5.88 pH	15.54 °C	475.14 µS/cm	0.95 mg/L	9.22 NTU	96.4 mV	31.25 ft	75.00 ml/min
1/26/2022 12:53 PM	20:00	5.88 pH	15.31 °C	474.91 µS/cm	1.04 mg/L	7.81 NTU	95.7 mV	31.38 ft	75.00 ml/min
1/26/2022 12:58 PM	25:00	5.88 pH	15.26 °C	479.36 µS/cm	1.30 mg/L	9.76 NTU	116.1 mV	31.64 ft	50.00 ml/min
1/26/2022 1:03 PM	30:00	5.87 pH	15.44 °C	478.05 µS/cm	1.26 mg/L	7.24 NTU	97.4 mV	31.92 ft	50.00 ml/min
1/26/2022 1:08 PM	35:00	5.87 pH	15.80 °C	479.89 µS/cm	1.29 mg/L	7.00 NTU	116.9 mV	32.20 ft	50.00 ml/min
1/26/2022 1:13 PM	40:00	5.87 pH	15.67 °C	476.67 µS/cm	1.36 mg/L	7.36 NTU	97.3 mV	32.50 ft	50.00 ml/min
1/26/2022 1:18 PM	45:00	5.87 pH	15.93 °C	477.87 µS/cm	1.43 mg/L	6.47 NTU	96.0 mV	32.75 ft	50.00 ml/min
1/26/2022 1:23 PM	50:00	5.87 pH	15.93 °C	470.21 µS/cm	1.44 mg/L	6.74 NTU	95.2 mV	32.78 ft	50.00 ml/min
1/26/2022 1:28 PM	55:00	5.87 pH	15.22 °C	474.46 µS/cm	1.54 mg/L	6.73 NTU	94.1 mV	32.80 ft	50.00 ml/min
1/26/2022 1:33 PM	01:00:00	5.87 pH	15.49 °C	480.09 µS/cm	1.69 mg/L	4.95 NTU	113.1 mV	32.85 ft	50.00 ml/min

1/26/2022 1:38 PM	01:05:00	5.88 pH	15.42 °C	477.65 µS/cm	1.75 mg/L	3.95 NTU	113.2 mV	32.87 ft	50.00 ml/min
1/26/2022 1:43 PM	01:10:00	5.87 pH	15.62 °C	479.69 µS/cm	1.79 mg/L	4.50 NTU	113.7 mV	32.88 ft	50.00 ml/min
1/26/2022 1:48 PM	01:15:00	5.87 pH	15.94 °C	474.04 µS/cm	1.84 mg/L	3.50 NTU	94.2 mV	32.90 ft	50.00 ml/min

Samples

Sample ID:	Description:
B-101D	

Low-Flow Test Report:

Test Date / Time: 1/27/2022 3:48:27 PM

Project: Plant McDonough (5)

Operator Name: Duane Fulton

Location Name: B-102D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.4 ft Total Depth: 84.4 ft Initial Depth to Water: 31.4 ft	Pump Type: Bladder Pump Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 80 ft Pump Intake From TOC: 80 ft Estimated Total Volume Pumped: 5200 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.55 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
1/27/2022 3:48 PM	00:00	7.09 pH	16.43 °C	683.85 µS/cm	4.39 mg/L	2.94 NTU	139.5 mV	31.50 ft	145.00 ml/min
1/27/2022 3:53 PM	05:00	5.49 pH	16.92 °C	670.59 µS/cm	0.89 mg/L	2.15 NTU	80.4 mV	31.92 ft	145.00 ml/min
1/27/2022 3:58 PM	10:00	5.47 pH	16.82 °C	665.68 µS/cm	1.01 mg/L	2.62 NTU	26.2 mV	31.95 ft	125.00 ml/min
1/27/2022 4:03 PM	15:00	5.44 pH	16.41 °C	676.39 µS/cm	1.16 mg/L	2.52 NTU	20.1 mV	31.94 ft	125.00 ml/min
1/27/2022 4:08 PM	20:00	5.38 pH	16.46 °C	692.00 µS/cm	0.65 mg/L	2.55 NTU	34.0 mV	31.95 ft	125.00 ml/min
1/27/2022 4:13 PM	25:00	5.35 pH	16.40 °C	694.48 µS/cm	0.53 mg/L	1.37 NTU	43.7 mV	31.92 ft	125.00 ml/min
1/27/2022 4:18 PM	30:00	5.34 pH	16.47 °C	695.28 µS/cm	0.46 mg/L	1.25 NTU	50.3 mV	31.95 ft	125.00 ml/min
1/27/2022 4:23 PM	35:00	5.33 pH	16.47 °C	693.29 µS/cm	0.39 mg/L	1.38 NTU	55.4 mV	31.95 ft	125.00 ml/min

Samples

Sample ID:	Description:
B-102D	

Low-Flow Test Report:

Test Date / Time: 1/24/2022 12:01:41 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-104D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50 ft Total Depth: 60 ft Initial Depth to Water: 6.13 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 55 ft Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 7025 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 6.35 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/24/2022 12:01 PM	00:00	6.11 pH	18.21 °C	1,884.7 µS/cm	0.77 mg/L	28.50 NTU	37.4 mV	6.13 ft	140.00 ml/min
1/24/2022 12:05 PM	04:00	6.21 pH	17.70 °C	1,931.6 µS/cm	0.48 mg/L	17.40 NTU	15.8 mV	8.20 ft	140.00 ml/min
1/24/2022 12:09 PM	08:00	6.27 pH	17.59 °C	1,938.7 µS/cm	0.38 mg/L	14.60 NTU	2.9 mV	8.84 ft	140.00 ml/min
1/24/2022 12:13 PM	12:00	6.32 pH	17.66 °C	1,945.5 µS/cm	0.34 mg/L	13.20 NTU	-11.5 mV	9.47 ft	140.00 ml/min
1/24/2022 12:17 PM	16:00	6.38 pH	17.71 °C	1,940.9 µS/cm	0.31 mg/L	11.80 NTU	-26.4 mV	10.08 ft	140.00 ml/min
1/24/2022 12:21 PM	20:00	6.40 pH	17.75 °C	1,936.2 µS/cm	0.27 mg/L	9.40 NTU	-38.4 mV	10.44 ft	140.00 ml/min
1/24/2022 12:25 PM	24:00	6.43 pH	17.88 °C	1,934.6 µS/cm	0.26 mg/L	6.70 NTU	-44.1 mV	10.98 ft	140.00 ml/min
1/24/2022 12:29 PM	28:00	6.46 pH	17.90 °C	1,928.5 µS/cm	0.23 mg/L	5.61 NTU	-47.0 mV	11.39 ft	140.00 ml/min
1/24/2022 12:33 PM	32:00	6.48 pH	18.06 °C	1,928.5 µS/cm	0.22 mg/L	5.32 NTU	-50.7 mV	11.75 ft	140.00 ml/min
1/24/2022 12:37 PM	36:00	6.49 pH	18.15 °C	1,927.1 µS/cm	0.20 mg/L	6.33 NTU	-55.3 mV	12.03 ft	140.00 ml/min
1/24/2022 12:41 PM	40:00	6.50 pH	18.20 °C	1,925.6 µS/cm	0.20 mg/L	5.13 NTU	-59.2 mV	12.19 ft	140.00 ml/min
1/24/2022 12:43 PM	42:11	6.49 pH	18.33 °C	1,898.8 µS/cm	0.20 mg/L	5.13 NTU	-60.4 mV	12.27 ft	140.00 ml/min
1/24/2022 12:47 PM	46:11	6.50 pH	18.35 °C	1,919.8 µS/cm	0.19 mg/L	4.29 NTU	-63.1 mV	12.39 ft	140.00 ml/min
1/24/2022 12:51 PM	50:11	6.48 pH	18.42 °C	1,921.5 µS/cm	0.18 mg/L	3.49 NTU	-63.8 mV	12.48 ft	140.00 ml/min

Samples

Sample ID:	Description:
B-104D	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/25/2022 1:48:19 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-106D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.4 ft Total Depth: 79.4 ft Initial Depth to Water: 39.92 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 74 ft Pump Intake From TOC: 74 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/25/2022 1:48 PM	00:00	6.60 pH	22.56 °C	409.40 µS/cm	2.57 mg/L	6.13 NTU	-73.1 mV	39.92 ft	200.00 ml/min
1/25/2022 1:53 PM	05:00	5.93 pH	18.74 °C	432.61 µS/cm	0.96 mg/L	2.61 NTU	-5.3 mV	40.12 ft	200.00 ml/min
1/25/2022 1:58 PM	10:00	5.85 pH	18.44 °C	436.63 µS/cm	1.25 mg/L	2.23 NTU	10.3 mV	40.35 ft	200.00 ml/min
1/25/2022 2:03 PM	15:00	5.85 pH	18.60 °C	436.11 µS/cm	1.67 mg/L	1.43 NTU	22.2 mV	40.30 ft	200.00 ml/min
1/25/2022 2:08 PM	20:00	5.85 pH	18.51 °C	437.51 µS/cm	1.44 mg/L	1.51 NTU	29.8 mV	40.30 ft	200.00 ml/min
1/25/2022 2:13 PM	25:00	5.85 pH	18.33 °C	438.41 µS/cm	1.19 mg/L	1.76 NTU	32.8 mV	40.30 ft	200.00 ml/min
1/25/2022 2:18 PM	30:00	5.84 pH	18.24 °C	438.87 µS/cm	1.03 mg/L	1.96 NTU	33.1 mV	40.30 ft	200.00 ml/min
1/25/2022 2:23 PM	35:00	5.84 pH	18.12 °C	439.88 µS/cm	0.77 mg/L	1.26 NTU	36.4 mV	40.30 ft	200.00 ml/min
1/25/2022 2:28 PM	40:00	5.84 pH	17.99 °C	440.21 µS/cm	0.64 mg/L	1.16 NTU	38.7 mV	40.30 ft	200.00 ml/min
1/25/2022 2:33 PM	45:00	5.84 pH	18.03 °C	439.97 µS/cm	0.60 mg/L	0.99 NTU	41.0 mV	40.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-106D	

Low-Flow Test Report:

Test Date / Time: 1/24/2022 9:34:59 AM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: B-107D Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 75.5 ft Total Depth: 85.5 ft Initial Depth to Water: 22.67 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 80 ft Pump Intake From TOC: 80 ft Estimated Total Volume Pumped: 4313 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/24/2022 9:34 AM	00:00	7.05 pH	4.24 °C	616.43 µS/cm	8.96 mg/L	1.18 NTU	121.4 mV	22.67 ft	200.00 ml/min
1/24/2022 9:36 AM	01:34	6.14 pH	9.01 °C	688.70 µS/cm	1.80 mg/L	1.18 NTU	88.6 mV	22.67 ft	200.00 ml/min
1/24/2022 9:41 AM	06:34	6.02 pH	14.69 °C	711.01 µS/cm	0.48 mg/L	0.66 NTU	29.7 mV	22.75 ft	200.00 ml/min
1/24/2022 9:46 AM	11:34	6.03 pH	15.74 °C	721.52 µS/cm	0.36 mg/L	0.57 NTU	16.2 mV	22.75 ft	200.00 ml/min
1/24/2022 9:51 AM	16:34	6.04 pH	16.34 °C	719.60 µS/cm	0.30 mg/L	0.70 NTU	6.9 mV	22.75 ft	200.00 ml/min
1/24/2022 9:56 AM	21:34	6.05 pH	16.82 °C	714.01 µS/cm	0.26 mg/L	0.50 NTU	-2.9 mV	22.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/24/2022 12:56:02 PM

Project: Plant McDonough

Operator Name: E. Rheams

Location Name: B-108D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69 ft Total Depth: 79 ft Initial Depth to Water: 21.29 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 74 ft Pump Intake From TOC: 74 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/24/2022 12:56 PM	00:00	6.22 pH	16.81 °C	744.26 µS/cm	3.81 mg/L	2.62 NTU	-36.1 mV	21.29 ft	200.00 ml/min
1/24/2022 1:01 PM	05:00	6.05 pH	18.53 °C	749.70 µS/cm	0.47 mg/L	1.20 NTU	-27.5 mV	21.65 ft	200.00 ml/min
1/24/2022 1:06 PM	10:00	6.02 pH	18.88 °C	744.73 µS/cm	0.40 mg/L	0.83 NTU	-38.8 mV	21.65 ft	200.00 ml/min
1/24/2022 1:11 PM	15:00	5.99 pH	19.05 °C	744.83 µS/cm	0.50 mg/L	0.36 NTU	-39.6 mV	21.65 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/20/2022 12:08:54 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-109D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.12 ft Total Depth: 102.12 ft Initial Depth to Water: 38.62 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 97 ft Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 4718 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.69 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/20/2022 12:08 PM	00:00	6.98 pH	8.08 °C	313.35 µS/cm	6.07 mg/L	6.27 NTU	-145.3 mV	38.62 ft	100.00 ml/min
1/20/2022 12:13 PM	05:00	6.49 pH	14.40 °C	435.10 µS/cm	0.96 mg/L	1.52 NTU	-105.4 mV	39.30 ft	100.00 ml/min
1/20/2022 12:18 PM	10:00	6.48 pH	15.17 °C	434.97 µS/cm	0.69 mg/L	1.15 NTU	-94.7 mV	40.02 ft	100.00 ml/min
1/20/2022 12:23 PM	15:00	6.48 pH	15.30 °C	432.56 µS/cm	0.63 mg/L	1.11 NTU	-87.6 mV	40.32 ft	100.00 ml/min
1/20/2022 12:26 PM	17:11	6.47 pH	15.26 °C	432.68 µS/cm	0.58 mg/L	1.59 NTU	-87.1 mV	40.59 ft	100.00 ml/min
1/20/2022 12:31 PM	22:11	6.47 pH	15.62 °C	431.81 µS/cm	0.47 mg/L	1.19 NTU	-113.7 mV	41.12 ft	100.00 ml/min
1/20/2022 12:36 PM	27:11	6.48 pH	15.52 °C	427.33 µS/cm	0.37 mg/L	1.35 NTU	-114.5 mV	41.44 ft	100.00 ml/min
1/20/2022 12:41 PM	32:11	6.47 pH	15.48 °C	429.20 µS/cm	0.35 mg/L	1.46 NTU	-79.5 mV	41.78 ft	100.00 ml/min
1/20/2022 12:46 PM	37:11	6.47 pH	15.48 °C	430.94 µS/cm	0.33 mg/L	1.30 NTU	-77.5 mV	42.06 ft	100.00 ml/min
1/20/2022 12:51 PM	42:11	6.46 pH	15.54 °C	432.96 µS/cm	0.30 mg/L	1.17 NTU	-74.7 mV	42.20 ft	100.00 ml/min
1/20/2022 12:56 PM	47:11	6.43 pH	15.35 °C	435.76 µS/cm	0.28 mg/L	1.17 NTU	-71.7 mV	42.31 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-109D	

Low-Flow Test Report:

Test Date / Time: 1/24/2022 11:31:15 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-111D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.2 ft Total Depth: 84.2 ft Initial Depth to Water: 10.6 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 79 ft Pump Intake From TOC: 79 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1.98 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/24/2022 11:31 AM	00:00	6.70 pH	17.66 °C	956.87 µS/cm	0.94 mg/L	0.99 NTU	-43.3 mV	10.60 ft	300.00 ml/min
1/24/2022 11:36 AM	05:00	6.96 pH	16.93 °C	982.59 µS/cm	0.23 mg/L	1.27 NTU	-105.9 mV	11.80 ft	300.00 ml/min
1/24/2022 11:41 AM	10:00	7.03 pH	16.80 °C	981.25 µS/cm	0.20 mg/L	1.00 NTU	-130.5 mV	12.07 ft	300.00 ml/min
1/24/2022 11:46 AM	15:00	7.07 pH	16.87 °C	978.33 µS/cm	0.18 mg/L	0.82 NTU	-120.7 mV	12.30 ft	300.00 ml/min
1/24/2022 11:51 AM	20:00	7.09 pH	16.88 °C	977.07 µS/cm	0.17 mg/L	1.15 NTU	-124.7 mV	12.45 ft	300.00 ml/min
1/24/2022 11:56 AM	25:00	7.11 pH	16.87 °C	972.44 µS/cm	0.20 mg/L	0.95 NTU	-147.2 mV	12.58 ft	300.00 ml/min

Samples

Sample ID:	Description:
B-111D	

Low-Flow Test Report:

Test Date / Time: 1/20/2022 3:51:43 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-115D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70 ft Total Depth: 80 ft Initial Depth to Water: 20.69 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 75 ft Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 6933 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/20/2022 3:51 PM	00:00	6.85 pH	15.81 °C	1,788.0 µS/cm	0.69 mg/L	19.60 NTU	-65.8 mV	20.69 ft	200.00 ml/min
1/20/2022 3:55 PM	04:00	6.68 pH	16.50 °C	1,417.5 µS/cm	0.41 mg/L	11.96 NTU	-48.6 mV	21.97 ft	200.00 ml/min
1/20/2022 3:59 PM	08:00	6.54 pH	16.50 °C	1,273.0 µS/cm	0.32 mg/L	4.77 NTU	-33.8 mV	22.23 ft	200.00 ml/min
1/20/2022 4:03 PM	12:00	6.43 pH	16.72 °C	1,190.5 µS/cm	0.28 mg/L	3.44 NTU	-22.7 mV	22.41 ft	200.00 ml/min
1/20/2022 4:07 PM	16:00	6.28 pH	16.99 °C	1,076.5 µS/cm	0.26 mg/L	4.02 NTU	-10.9 mV	22.53 ft	200.00 ml/min
1/20/2022 4:11 PM	20:00	6.10 pH	16.99 °C	978.62 µS/cm	0.23 mg/L	4.46 NTU	4.7 mV	22.63 ft	200.00 ml/min
1/20/2022 4:12 PM	20:21	6.08 pH	16.99 °C	978.63 µS/cm	0.23 mg/L	4.46 NTU	6.3 mV	22.63 ft	200.00 ml/min
1/20/2022 4:16 PM	24:21	5.96 pH	17.02 °C	929.54 µS/cm	0.22 mg/L	4.31 NTU	15.5 mV	22.69 ft	200.00 ml/min
1/20/2022 4:16 PM	24:49	5.94 pH	16.99 °C	923.18 µS/cm	0.22 mg/L	4.31 NTU	16.4 mV	22.69 ft	200.00 ml/min
1/20/2022 4:18 PM	26:40	5.88 pH	16.95 °C	908.72 µS/cm	0.21 mg/L	3.74 NTU	19.1 mV	22.73 ft	200.00 ml/min
1/20/2022 4:22 PM	30:40	5.81 pH	17.12 °C	880.77 µS/cm	0.20 mg/L	4.91 NTU	22.8 mV	22.73 ft	200.00 ml/min
1/20/2022 4:26 PM	34:40	5.76 pH	16.99 °C	848.81 µS/cm	0.19 mg/L	3.77 NTU	26.1 mV	22.76 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-115D	Metals, TDS, Inorganics, Alkalinity, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/20/2022 3:17:56 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-120D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.08 ft Total Depth: 72.08 ft Initial Depth to Water: 35 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 67 ft Pump Intake From TOC: 67 ft Estimated Total Volume Pumped: 6250 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/20/2022 3:17 PM	00:00	6.07 pH	6.78 °C	561.42 µS/cm	10.37 mg/L	5.76 NTU	-23.9 mV	35.00 ft	250.00 ml/min
1/20/2022 3:22 PM	05:00	5.31 pH	14.58 °C	1,136.6 µS/cm	0.95 mg/L	2.78 NTU	48.6 mV	35.00 ft	250.00 ml/min
1/20/2022 3:27 PM	10:00	5.29 pH	15.44 °C	1,127.1 µS/cm	0.96 mg/L	2.24 NTU	25.1 mV	35.00 ft	250.00 ml/min
1/20/2022 3:32 PM	15:00	5.28 pH	15.75 °C	1,125.5 µS/cm	1.07 mg/L	1.97 NTU	-6.0 mV	35.00 ft	250.00 ml/min
1/20/2022 3:37 PM	20:00	5.27 pH	15.98 °C	1,123.9 µS/cm	1.21 mg/L	1.75 NTU	-11.1 mV	35.00 ft	250.00 ml/min
1/20/2022 3:42 PM	25:00	5.28 pH	16.02 °C	1,117.6 µS/cm	1.22 mg/L	2.13 NTU	-33.5 mV	35.00 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-120D	

Low-Flow Test Report:

Test Date / Time: 1/26/2022 10:41:28 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-90 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.4 ft Total Depth: 33.4 ft Initial Depth to Water: 1.65 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 28ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 10:41 AM	00:00	5.39 pH	15.61 °C	921.73 µS/cm	0.38 mg/L	1.95 NTU	133.6 mV	1.65 ft	300.00 ml/min
1/26/2022 10:46 AM	05:00	5.37 pH	16.44 °C	871.40 µS/cm	0.24 mg/L	1.62 NTU	144.7 mV	2.62 ft	300.00 ml/min
1/26/2022 10:51 AM	10:00	5.37 pH	16.71 °C	864.76 µS/cm	0.20 mg/L	1.27 NTU	90.3 mV	2.66 ft	300.00 ml/min
1/26/2022 10:56 AM	15:00	5.38 pH	16.75 °C	850.40 µS/cm	0.21 mg/L	0.61 NTU	77.8 mV	2.66 ft	300.00 ml/min
1/26/2022 11:01 AM	20:00	5.45 pH	16.94 °C	825.91 µS/cm	0.34 mg/L	0.84 NTU	97.8 mV	2.66 ft	300.00 ml/min

Samples

Sample ID:	Description:
B-90	

Low-Flow Test Report:

Test Date / Time: 1/26/2022 11:39:55 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-91 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.6 ft Total Depth: 34.6 ft Initial Depth to Water: 3.5 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 29 ft Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 11:39 AM	00:00	5.31 pH	18.97 °C	888.34 µS/cm	0.27 mg/L	1.00 NTU	157.8 mV	3.50 ft	300.00 ml/min
1/26/2022 11:44 AM	05:00	5.31 pH	17.73 °C	907.91 µS/cm	0.13 mg/L	1.03 NTU	120.3 mV	3.95 ft	300.00 ml/min
1/26/2022 11:49 AM	10:00	5.30 pH	17.89 °C	904.88 µS/cm	0.09 mg/L	0.75 NTU	66.6 mV	4.00 ft	300.00 ml/min
1/26/2022 11:54 AM	15:00	5.29 pH	17.86 °C	905.22 µS/cm	0.08 mg/L	0.51 NTU	54.6 mV	4.00 ft	300.00 ml/min
1/26/2022 11:59 AM	20:00	5.29 pH	17.90 °C	902.58 µS/cm	0.07 mg/L	0.79 NTU	49.8 mV	4.00 ft	300.00 ml/min

Samples

Sample ID:	Description:
B-91	

Low-Flow Test Report:

Test Date / Time: 1/26/2022 12:43:37 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-95 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.16 ft Total Depth: 35.16 ft Initial Depth to Water: 1.95 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 30 ft Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 12:43 PM	00:00	5.38 pH	19.76 °C	576.92 µS/cm	0.49 mg/L	4.80 NTU	128.0 mV	1.95 ft	300.00 ml/min
1/26/2022 12:48 PM	05:00	5.31 pH	18.28 °C	599.36 µS/cm	0.14 mg/L	3.19 NTU	72.0 mV	3.00 ft	300.00 ml/min
1/26/2022 12:53 PM	10:00	5.31 pH	17.99 °C	599.65 µS/cm	0.11 mg/L	3.93 NTU	53.6 mV	3.15 ft	300.00 ml/min
1/26/2022 12:58 PM	15:00	5.31 pH	18.10 °C	588.96 µS/cm	0.09 mg/L	4.13 NTU	48.3 mV	3.20 ft	300.00 ml/min
1/26/2022 1:03 PM	20:00	5.33 pH	18.17 °C	592.65 µS/cm	0.09 mg/L	3.12 NTU	44.5 mV	3.20 ft	300.00 ml/min

Samples

Sample ID:	Description:
B-95	

Low-Flow Test Report:

Test Date / Time: 1/26/2022 1:37:08 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-96 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.33 ft Total Depth: 32.33 ft Initial Depth to Water: 5 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 27 ft Pump Intake From TOC: 27 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 1:37 PM	00:00	5.03 pH	19.15 °C	1,007.4 µS/cm	0.31 mg/L	1.18 NTU	352.5 mV	5.00 ft	300.00 ml/min
1/26/2022 1:42 PM	05:00	5.02 pH	18.45 °C	1,012.4 µS/cm	0.16 mg/L	0.96 NTU	522.0 mV	5.90 ft	300.00 ml/min
1/26/2022 1:47 PM	10:00	5.02 pH	18.21 °C	1,018.8 µS/cm	0.13 mg/L	0.68 NTU	417.3 mV	5.90 ft	300.00 ml/min
1/26/2022 1:52 PM	15:00	5.02 pH	18.08 °C	1,016.7 µS/cm	0.10 mg/L	0.53 NTU	417.9 mV	5.90 ft	300.00 ml/min
1/26/2022 1:57 PM	20:00	5.01 pH	18.14 °C	1,017.8 µS/cm	0.09 mg/L	0.56 NTU	416.3 mV	5.90 ft	300.00 ml/min

Samples

Sample ID:	Description:
B-96	

Low-Flow Test Report:

Test Date / Time: 1/26/2022 2:41:52 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-99 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 6.93 ft Total Depth: 11.93 ft Initial Depth to Water: 3.1 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 9 ft Pump Intake From TOC: 9 ft Estimated Total Volume Pumped: 24000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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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 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 2:41 PM	00:00	5.64 pH	16.74 °C	784.47 µS/cm	0.30 mg/L	1,467.0 NTU	125.5 mV	3.10 ft	300.00 ml/min
1/26/2022 2:46 PM	05:00	5.64 pH	15.75 °C	785.66 µS/cm	0.19 mg/L	150.00 NTU	109.0 mV	3.80 ft	300.00 ml/min
1/26/2022 2:51 PM	10:00	5.64 pH	15.75 °C	781.00 µS/cm	0.19 mg/L	35.90 NTU	125.1 mV	3.83 ft	300.00 ml/min
1/26/2022 2:56 PM	15:00	5.65 pH	15.84 °C	780.98 µS/cm	0.10 mg/L	21.30 NTU	88.5 mV	3.83 ft	300.00 ml/min
1/26/2022 3:01 PM	20:00	5.64 pH	15.91 °C	778.68 µS/cm	0.08 mg/L	14.70 NTU	83.4 mV	3.83 ft	300.00 ml/min
1/26/2022 3:06 PM	25:00	5.66 pH	15.90 °C	778.73 µS/cm	0.08 mg/L	13.20 NTU	74.1 mV	3.85 ft	300.00 ml/min
1/26/2022 3:11 PM	30:00	5.65 pH	15.93 °C	778.66 µS/cm	0.07 mg/L	12.35 NTU	67.4 mV	3.85 ft	300.00 ml/min
1/26/2022 3:16 PM	35:00	5.72 pH	15.98 °C	777.52 µS/cm	0.07 mg/L	8.82 NTU	61.0 mV	3.85 ft	300.00 ml/min
1/26/2022 3:21 PM	40:00	5.66 pH	15.97 °C	776.42 µS/cm	0.07 mg/L	7.25 NTU	60.4 mV	3.85 ft	300.00 ml/min
1/26/2022 3:26 PM	45:00	5.66 pH	16.07 °C	777.35 µS/cm	0.07 mg/L	7.01 NTU	52.6 mV	3.85 ft	300.00 ml/min
1/26/2022 3:31 PM	50:00	5.65 pH	16.02 °C	773.29 µS/cm	0.07 mg/L	6.76 NTU	58.8 mV	3.85 ft	300.00 ml/min
1/26/2022 3:36 PM	55:00	5.67 pH	16.11 °C	777.10 µS/cm	0.06 mg/L	11.50 NTU	46.0 mV	3.85 ft	300.00 ml/min
1/26/2022 3:41 PM	01:00:00	5.67 pH	15.88 °C	765.79 µS/cm	0.11 mg/L	26.30 NTU	58.2 mV	3.50 ft	100.00 ml/min
1/26/2022 3:46 PM	01:05:00	5.69 pH	15.47 °C	776.35 µS/cm	0.13 mg/L	13.40 NTU	46.6 mV	3.44 ft	100.00 ml/min
1/26/2022 3:51 PM	01:10:00	5.68 pH	15.32 °C	776.10 µS/cm	0.14 mg/L	12.95 NTU	54.3 mV	3.41 ft	100.00 ml/min

1/26/2022 3:56 PM	01:15:00	5.68 pH	15.29 °C	777.72 µS/cm	0.14 mg/L	12.00 NTU	62.7 mV	3.41 ft	100.00 ml/min
1/26/2022 4:01 PM	01:20:00	5.67 pH	15.32 °C	776.53 µS/cm	0.15 mg/L	7.24 NTU	68.0 mV	3.41 ft	100.00 ml/min
1/26/2022 4:06 PM	01:25:00	5.35 pH	15.26 °C	774.66 µS/cm	0.15 mg/L	8.88 NTU	104.9 mV	3.41 ft	100.00 ml/min
1/26/2022 4:11 PM	01:30:00	5.67 pH	15.24 °C	776.81 µS/cm	0.15 mg/L	4.92 NTU	80.0 mV	3.41 ft	100.00 ml/min
1/26/2022 4:16 PM	01:35:00	5.66 pH	15.14 °C	774.28 µS/cm	0.15 mg/L	4.31 NTU	86.7 mV	3.41 ft	100.00 ml/min
1/26/2022 4:21 PM	01:40:00	5.21 pH	15.05 °C	776.76 µS/cm	0.15 mg/L	8.23 NTU	86.9 mV	3.41 ft	100.00 ml/min
1/26/2022 4:26 PM	01:45:00	5.68 pH	14.99 °C	778.68 µS/cm	0.15 mg/L	4.38 NTU	84.5 mV	3.41 ft	100.00 ml/min
1/26/2022 4:31 PM	01:50:00	5.67 pH	14.94 °C	776.96 µS/cm	0.15 mg/L	3.89 NTU	86.8 mV	3.41 ft	100.00 ml/min
1/26/2022 4:36 PM	01:55:00	5.67 pH	14.85 °C	776.40 µS/cm	0.15 mg/L	3.51 NTU	118.7 mV	3.41 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-99	

Low-Flow Test Report:

Test Date / Time: 1/19/2022 3:19:48 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-116D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 82.45 ft Total Depth: 92.45 ft Initial Depth to Water: 42.36 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 88 ft Pump Intake From TOC: 88 ft Estimated Total Volume Pumped: 6240 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.24 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 0.3	
1/19/2022 3:19 PM	00:00	6.03 pH	18.78 °C	120.49 µS/cm	4.51 mg/L	41.20 NTU	42.6 mV	42.36 ft	130.00 ml/min
1/19/2022 3:23 PM	04:00	6.01 pH	18.06 °C	120.40 µS/cm	4.65 mg/L	19.40 NTU	45.7 mV	42.59 ft	130.00 ml/min
1/19/2022 3:27 PM	08:00	6.02 pH	18.33 °C	122.34 µS/cm	4.63 mg/L	11.88 NTU	47.6 mV	42.60 ft	130.00 ml/min
1/19/2022 3:31 PM	12:00	6.02 pH	18.51 °C	122.35 µS/cm	4.62 mg/L	9.65 NTU	49.3 mV	42.60 ft	130.00 ml/min
1/19/2022 3:35 PM	16:00	6.03 pH	18.11 °C	122.86 µS/cm	4.64 mg/L	9.07 NTU	50.8 mV	42.60 ft	130.00 ml/min
1/19/2022 3:39 PM	20:00	6.03 pH	17.70 °C	123.63 µS/cm	4.66 mg/L	8.69 NTU	52.4 mV	42.60 ft	130.00 ml/min
1/19/2022 3:43 PM	24:00	6.03 pH	17.55 °C	124.06 µS/cm	4.67 mg/L	7.95 NTU	53.6 mV	42.60 ft	130.00 ml/min
1/19/2022 3:47 PM	28:00	6.03 pH	17.70 °C	124.19 µS/cm	4.63 mg/L	7.44 NTU	54.5 mV	42.60 ft	130.00 ml/min
1/19/2022 3:51 PM	32:00	6.04 pH	17.70 °C	124.33 µS/cm	4.62 mg/L	6.99 NTU	55.2 mV	42.60 ft	130.00 ml/min
1/19/2022 3:55 PM	36:00	6.04 pH	17.44 °C	124.73 µS/cm	4.62 mg/L	6.46 NTU	56.3 mV	42.60 ft	130.00 ml/min
1/19/2022 3:59 PM	40:00	6.04 pH	17.36 °C	125.04 µS/cm	4.61 mg/L	5.78 NTU	57.2 mV	42.60 ft	130.00 ml/min
1/19/2022 4:03 PM	44:00	6.04 pH	17.35 °C	125.05 µS/cm	4.60 mg/L	4.80 NTU	57.9 mV	42.60 ft	130.00 ml/min
1/19/2022 4:07 PM	48:00	6.04 pH	17.23 °C	125.22 µS/cm	4.61 mg/L	2.81 NTU	58.5 mV	42.60 ft	130.00 ml/min

Samples

Sample ID:	Description:
B-116D	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/19/2022 11:35:56 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-117D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.03 ft Total Depth: 79.03 ft Initial Depth to Water: 29.13 ft	Pump Type: Bladder Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 74 ft Pump Intake From TOC: 74 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.97 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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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 %	+/- 2	+/- 10	+/- 0.3	
1/19/2022 11:35 AM	00:00	6.45 pH	15.49 °C	105.75 µS/cm	2.85 mg/L	6.88 NTU	71.4 mV	29.13 ft	200.00 ml/min
1/19/2022 11:40 AM	05:00	6.12 pH	16.50 °C	105.92 µS/cm	5.34 mg/L	5.44 NTU	70.4 mV	29.85 ft	200.00 ml/min
1/19/2022 11:45 AM	10:00	6.02 pH	16.65 °C	108.06 µS/cm	3.68 mg/L	4.17 NTU	70.6 mV	29.95 ft	200.00 ml/min
1/19/2022 11:50 AM	15:00	6.02 pH	16.74 °C	110.31 µS/cm	2.85 mg/L	2.19 NTU	68.6 mV	30.12 ft	200.00 ml/min
1/19/2022 11:55 AM	20:00	6.02 pH	16.74 °C	120.64 µS/cm	3.73 mg/L	2.40 NTU	67.9 mV	30.18 ft	200.00 ml/min
1/19/2022 12:00 PM	25:00	6.02 pH	16.77 °C	125.35 µS/cm	3.72 mg/L	2.39 NTU	64.6 mV	30.18 ft	200.00 ml/min
1/19/2022 12:05 PM	30:00	6.00 pH	16.79 °C	129.91 µS/cm	4.84 mg/L	1.68 NTU	65.7 mV	30.18 ft	200.00 ml/min
1/19/2022 12:10 PM	35:00	6.00 pH	16.92 °C	134.80 µS/cm	4.00 mg/L	1.94 NTU	65.9 mV	30.05 ft	200.00 ml/min
1/19/2022 12:15 PM	40:00	6.02 pH	16.87 °C	136.80 µS/cm	3.98 mg/L	2.85 NTU	64.9 mV	30.05 ft	200.00 ml/min
1/19/2022 12:20 PM	45:00	6.02 pH	16.91 °C	137.65 µS/cm	4.14 mg/L	2.41 NTU	64.8 mV	30.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-117D	

Low-Flow Test Report:

Test Date / Time: 1/19/2022 1:09:07 PM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-118 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.32 ft Total Depth: 78.32 ft Initial Depth to Water: 51.12 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 73 ft Pump Intake From TOC: 73 ft Estimated Total Volume Pumped: 5600 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurged 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 0.3	
1/19/2022 1:09 PM	00:00	6.14 pH	15.88 °C	87.91 µS/cm	6.02 mg/L	12.30 NTU	25.6 mV	51.12 ft	200.00 ml/min
1/19/2022 1:13 PM	04:00	6.05 pH	15.74 °C	87.68 µS/cm	5.48 mg/L	11.30 NTU	32.4 mV	51.28 ft	200.00 ml/min
1/19/2022 1:17 PM	08:00	6.02 pH	15.85 °C	87.21 µS/cm	5.39 mg/L	13.40 NTU	37.0 mV	51.28 ft	200.00 ml/min
1/19/2022 1:21 PM	12:00	6.01 pH	15.87 °C	86.96 µS/cm	5.49 mg/L	13.00 NTU	40.3 mV	51.28 ft	200.00 ml/min
1/19/2022 1:25 PM	16:00	6.03 pH	15.78 °C	86.93 µS/cm	5.39 mg/L	10.97 NTU	42.0 mV	51.28 ft	200.00 ml/min
1/19/2022 1:29 PM	20:00	6.02 pH	15.77 °C	86.72 µS/cm	5.36 mg/L	7.57 NTU	45.1 mV	51.28 ft	200.00 ml/min
1/19/2022 1:33 PM	24:00	6.01 pH	15.74 °C	86.52 µS/cm	5.29 mg/L	5.51 NTU	47.3 mV	51.28 ft	200.00 ml/min
1/19/2022 1:37 PM	28:00	6.01 pH	15.78 °C	86.28 µS/cm	5.28 mg/L	4.43 NTU	49.2 mV	51.28 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-118	Metals, TDS, Inorganics, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 1/19/2022 10:24:35 AM

Project: Plant McDonough

Operator Name: Joe Booth

Location Name: B-119D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 97.98 ft Total Depth: 107.98 ft Initial Depth to Water: 45.95 ft	Pump Type: QED Dedicated Tubing Type: Polyethylene Tubing Inner Diameter: 0.170 in Tubing Length: 103 ft Pump Intake From TOC: 103 ft Estimated Total Volume Pumped: 9360 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 3.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 0.3	
1/19/2022 10:24 AM	00:00	6.68 pH	10.89 °C	230.60 µS/cm	4.15 mg/L	5.76 NTU	65.1 mV	45.95 ft	130.00 ml/min
1/19/2022 10:28 AM	04:00	6.69 pH	12.51 °C	507.69 µS/cm	2.17 mg/L	4.17 NTU	35.4 mV	47.74 ft	130.00 ml/min
1/19/2022 10:32 AM	08:00	6.77 pH	13.06 °C	598.28 µS/cm	1.32 mg/L	3.98 NTU	15.2 mV	47.93 ft	130.00 ml/min
1/19/2022 10:36 AM	12:00	6.80 pH	13.18 °C	623.21 µS/cm	1.02 mg/L	2.36 NTU	4.3 mV	48.11 ft	130.00 ml/min
1/19/2022 10:40 AM	16:00	6.83 pH	13.20 °C	626.76 µS/cm	0.84 mg/L	2.14 NTU	-9.5 mV	48.24 ft	130.00 ml/min
1/19/2022 10:44 AM	20:00	6.86 pH	13.29 °C	617.87 µS/cm	0.74 mg/L	2.29 NTU	-23.0 mV	48.38 ft	130.00 ml/min
1/19/2022 10:48 AM	24:00	6.88 pH	13.34 °C	596.21 µS/cm	0.72 mg/L	1.97 NTU	-31.9 mV	48.49 ft	130.00 ml/min
1/19/2022 10:52 AM	28:00	6.89 pH	13.48 °C	565.29 µS/cm	0.74 mg/L	2.39 NTU	-35.9 mV	48.56 ft	130.00 ml/min
1/19/2022 10:56 AM	32:00	6.90 pH	13.53 °C	526.57 µS/cm	0.78 mg/L	2.21 NTU	-37.1 mV	48.64 ft	130.00 ml/min
1/19/2022 11:00 AM	36:00	6.88 pH	13.61 °C	466.45 µS/cm	0.81 mg/L	2.05 NTU	-35.5 mV	48.69 ft	130.00 ml/min
1/19/2022 11:04 AM	40:00	6.84 pH	13.57 °C	409.51 µS/cm	0.86 mg/L	2.50 NTU	-31.9 mV	48.74 ft	130.00 ml/min
1/19/2022 11:08 AM	44:00	6.78 pH	13.72 °C	352.51 µS/cm	0.96 mg/L	2.41 NTU	-27.2 mV	48.83 ft	130.00 ml/min
1/19/2022 11:12 AM	48:00	6.73 pH	13.83 °C	317.75 µS/cm	1.05 mg/L	2.16 NTU	-22.3 mV	48.85 ft	130.00 ml/min
1/19/2022 11:16 AM	52:00	6.69 pH	13.93 °C	296.29 µS/cm	1.12 mg/L	2.38 NTU	-17.1 mV	48.87 ft	130.00 ml/min

1/19/2022 11:20 AM	56:00	6.66 pH	14.07 °C	283.74 µS/cm	1.19 mg/L	2.34 NTU	-13.3 mV	48.90 ft	130.00 ml/min
1/19/2022 11:24 AM	01:00:00	6.65 pH	14.23 °C	278.12 µS/cm	1.22 mg/L	2.43 NTU	-10.1 mV	48.93 ft	130.00 ml/min
1/19/2022 11:28 AM	01:04:00	6.63 pH	14.24 °C	273.29 µS/cm	1.25 mg/L	2.31 NTU	-7.0 mV	48.95 ft	130.00 ml/min
1/19/2022 11:32 AM	01:08:00	6.63 pH	14.25 °C	266.79 µS/cm	1.27 mg/L	2.28 NTU	-4.6 mV	48.96 ft	130.00 ml/min
1/19/2022 11:36 AM	01:12:00	6.61 pH	14.23 °C	258.23 µS/cm	1.31 mg/L	1.54 NTU	-2.6 mV	48.98 ft	130.00 ml/min

Samples

Sample ID:	Description:
B-119D	Metals, TDS, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 1/19/2022 3:51:12 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: SW-1	Pump Type: N/A Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 3:51 PM	00:00	6.85 pH	12.42 °C	379.99 µS/cm	7.40 mg/L		21.5 mV	
1/19/2022 3:52 PM	01:00	6.84 pH	12.40 °C	381.30 µS/cm	7.41 mg/L	5.36 NTU	21.7 mV	

Samples

Sample ID:	Description:
SW-1	

Low-Flow Test Report:

Test Date / Time: 1/19/2022 3:03:42 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: SW-2	Pump Type: N/A Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 3:03 PM	00:00	7.42 pH	11.06 °C	242.68 µS/cm	9.64 mg/L		42.3 mV	
1/19/2022 3:04 PM	01:00	7.43 pH	11.20 °C	241.77 µS/cm	9.64 mg/L	6.46 NTU	38.7 mV	

Samples

Sample ID:	Description:
SW-2	

Low-Flow Test Report:

Test Date / Time: 1/19/2022 2:42:35 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: SW-3	Pump Type: N/A Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 2:42 PM	00:00	7.38 pH	11.29 °C	253.23 µS/cm	9.97 mg/L		1.2 mV	
1/19/2022 2:43 PM	01:00	7.39 pH	11.15 °C	255.14 µS/cm	10.07 mg/L	5.63 NTU	2.5 mV	

Samples

Sample ID:	Description:
SW-3	

Low-Flow Test Report:

Test Date / Time: 1/19/2022 2:17:40 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: SW-4	Pump Type: N/A Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 728623
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 2:17 PM	00:00	7.01 pH	12.90 °C	330.64 µS/cm	9.33 mg/L	4.91 NTU	33.9 mV	
1/19/2022 2:18 PM	01:00	7.02 pH	12.86 °C	330.80 µS/cm	9.34 mg/L	4.82 NTU	32.9 mV	

Samples

Sample ID:	Description:
SW-4	

APPENDIX A

Field Data Forms June 2022

Low-Flow Test Report:

Test Date / Time: 6/6/2022 10:41:29 AM

Project: plant McDonough

Operator Name: Joe Booth

Location Name: DGWC-121 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.4 ft Total Depth: 49.4 ft Initial Depth to Water: 9.69 ft	Pump Type: Alexis Peristaltic Tubing Type: Hope Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 9805 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 5.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurged 1.5 liters

Weather Conditions:

80 sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 1 %	+/- 5	+/- 100 %	+/- 0.3	
6/6/2022 10:41 AM	00:00	6.32 pH	22.07 °C	356.29 µS/cm	0.56 mg/L	23.00 NTU	-19.0 mV	9.69 ft	150.00 ml/min
6/6/2022 10:45 AM	04:00	6.28 pH	20.70 °C	359.23 µS/cm	0.89 mg/L	22.30 NTU	-19.9 mV	12.49 ft	150.00 ml/min
6/6/2022 10:49 AM	08:00	6.28 pH	20.57 °C	360.21 µS/cm	0.98 mg/L	18.90 NTU	-28.7 mV	13.10 ft	150.00 ml/min
6/6/2022 10:53 AM	12:00	6.29 pH	20.64 °C	360.97 µS/cm	0.94 mg/L	17.60 NTU	-40.9 mV	13.70 ft	150.00 ml/min
6/6/2022 10:54 AM	13:07	6.29 pH	20.61 °C	361.05 µS/cm	0.94 mg/L	17.60 NTU	-43.9 mV	13.70 ft	150.00 ml/min
6/6/2022 10:58 AM	17:22	6.30 pH	20.37 °C	362.13 µS/cm	0.83 mg/L	15.00 NTU	-56.4 mV	14.33 ft	150.00 ml/min
6/6/2022 11:02 AM	21:22	6.31 pH	20.15 °C	367.16 µS/cm	0.72 mg/L	12.30 NTU	-63.7 mV	14.36 ft	150.00 ml/min
6/6/2022 11:06 AM	25:22	6.32 pH	20.22 °C	366.44 µS/cm	0.63 mg/L	12.00 NTU	-68.4 mV	14.39 ft	150.00 ml/min
6/6/2022 11:10 AM	29:22	6.32 pH	20.11 °C	367.45 µS/cm	0.57 mg/L	10.60 NTU	-72.1 mV	14.42 ft	150.00 ml/min
6/6/2022 11:14 AM	33:22	6.32 pH	20.11 °C	367.26 µS/cm	0.52 mg/L	10.40 NTU	-74.5 mV	14.46 ft	150.00 ml/min
6/6/2022 11:18 AM	37:22	6.33 pH	20.37 °C	366.41 µS/cm	0.44 mg/L	7.38 NTU	-78.4 mV	14.50 ft	150.00 ml/min
6/6/2022 11:22 AM	41:22	6.33 pH	20.81 °C	363.49 µS/cm	0.39 mg/L	9.20 NTU	-80.4 mV	14.65 ft	150.00 ml/min
6/6/2022 11:26 AM	45:22	6.33 pH	20.89 °C	363.60 µS/cm	0.36 mg/L	7.90 NTU	-81.5 mV	14.70 ft	150.00 ml/min

6/6/2022 11:30 AM	49:22	6.33 pH	20.75 °C	362.38 µS/cm	0.32 mg/L	7.29 NTU	-83.0 mV	14.85 ft	150.00 ml/min
6/6/2022 11:34 AM	53:22	6.33 pH	20.91 °C	363.13 µS/cm	0.28 mg/L	6.48 NTU	-84.8 mV	14.90 ft	150.00 ml/min
6/6/2022 11:38 AM	57:22	6.33 pH	20.51 °C	363.20 µS/cm	0.26 mg/L	6.14 NTU	-84.0 mV	14.95 ft	150.00 ml/min
6/6/2022 11:42 AM	01:01:22	6.33 pH	20.33 °C	363.10 µS/cm	0.24 mg/L	5.67 NTU	-84.0 mV	15.00 ft	150.00 ml/min
6/6/2022 11:46 AM	01:05:22	6.33 pH	20.79 °C	362.78 µS/cm	0.22 mg/L	4.78 NTU	-83.7 mV	15.05 ft	150.00 ml/min

Samples

Sample ID:	Description:
DGWC-121	Metals, Alkalinity, inorganics, radium
DUP-1	Metals, Alkalinity, inorganics, radium

Low-Flow Test Report:

Test Date / Time: 6/6/2022 10:25:23 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: B-122D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.63 ft Total Depth: 80.63 ft Initial Depth to Water: 30.67 m	Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 75 m Estimated Total Volume Pumped: 9750 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: -19.825 m	Instrument Used: Aqua TROLL 400 Serial Number: 851413
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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	
6/6/2022 10:25 AM	00:00	6.00 pH	25.59 °C	397.03 µS/cm	2.00 mg/L	43.50 NTU	30.6 mV	30.67 ft	150.00 ml/min
6/6/2022 10:30 AM	05:00	5.98 pH	24.37 °C	397.09 µS/cm	0.91 mg/L	24.40 NTU	25.8 mV	31.62 ft	150.00 ml/min
6/6/2022 10:35 AM	10:00	5.98 pH	21.78 °C	394.10 µS/cm	0.58 mg/L	10.80 NTU	26.4 mV	32.15 ft	150.00 ml/min
6/6/2022 10:40 AM	15:00	5.99 pH	21.68 °C	396.75 µS/cm	0.58 mg/L	10.30 NTU	26.0 mV	32.94 ft	150.00 ml/min
6/6/2022 10:45 AM	20:00	5.98 pH	21.46 °C	403.21 µS/cm	0.57 mg/L	7.73 NTU	25.0 mV	33.50 ft	150.00 ml/min
6/6/2022 10:50 AM	25:00	5.98 pH	21.32 °C	409.81 µS/cm	0.37 mg/L	6.54 NTU	23.6 mV	34.00 ft	150.00 ml/min
6/6/2022 10:55 AM	30:00	5.99 pH	21.30 °C	421.36 µS/cm	0.29 mg/L	6.39 NTU	19.6 mV	34.40 ft	150.00 ml/min
6/6/2022 11:00 AM	35:00	6.00 pH	21.15 °C	432.98 µS/cm	0.27 mg/L	4.06 NTU	20.9 mV	34.70 ft	150.00 ml/min
6/6/2022 11:05 AM	40:00	6.00 pH	21.44 °C	444.89 µS/cm	0.23 mg/L	3.88 NTU	15.6 mV	35.00 ft	150.00 ml/min
6/6/2022 11:10 AM	45:00	6.00 pH	21.55 °C	449.85 µS/cm	0.22 mg/L	3.50 NTU	19.6 mV	35.15 ft	150.00 ml/min
6/6/2022 11:15 AM	50:00	6.01 pH	21.41 °C	452.28 µS/cm	0.20 mg/L	3.08 NTU	17.6 mV	35.30 ft	150.00 ml/min
6/6/2022 11:20 AM	55:00	6.01 pH	21.59 °C	456.28 µS/cm	0.20 mg/L	4.36 NTU	10.7 mV	35.39 ft	150.00 ml/min
6/6/2022 11:25 AM	01:00:00	6.02 pH	21.64 °C	463.17 µS/cm	0.17 mg/L	3.66 NTU	15.4 mV	35.52 ft	150.00 ml/min
6/6/2022 11:30 AM	01:05:00	6.02 pH	21.81 °C	466.87 µS/cm	0.16 mg/L	3.21 NTU	7.5 mV	35.58 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-122D	

Low-Flow Test Report:

Test Date / Time: 6/8/2022 2:46:10 PM

Project: plant McDonough (2)

Operator Name: Joe Booth

Location Name: B-123D Well Diameter: 2 in Casing Type: PVC Screen Length: 50 ft Top of Screen: 114.9 ft Total Depth: 164.9 ft Initial Depth to Water: 108.5 ft	Pump Type: Alexis Peristaltic Tubing Type: Hope Pump Intake From TOC: 135 ft Estimated Total Volume Pumped: 6673.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843285
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Test Notes:

Prepurged 100 gallons during development

Weather Conditions:

80 sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 100 %	+/- 0.3	
6/8/2022 2:46 PM	00:00	6.64 pH	23.34 °C	777.35 µS/cm	6.18 mg/L	6.70 NTU	-61.8 mV	110.05 ft	200.00 ml/min
6/8/2022 2:50 PM	04:00	6.64 pH	23.47 °C	775.83 µS/cm	6.11 mg/L	6.40 NTU	-61.0 mV	109.74 ft	200.00 ml/min
6/8/2022 2:54 PM	08:00	6.63 pH	23.33 °C	774.09 µS/cm	6.15 mg/L	6.76 NTU	-59.4 mV	109.09 ft	200.00 ml/min
6/8/2022 2:58 PM	12:00	6.63 pH	23.63 °C	774.41 µS/cm	6.17 mg/L	6.62 NTU	-58.9 mV	108.81 ft	200.00 ml/min
6/8/2022 3:02 PM	16:00	6.62 pH	23.55 °C	775.37 µS/cm	6.25 mg/L	6.08 NTU	-57.1 mV	108.68 ft	200.00 ml/min
6/8/2022 3:06 PM	20:00	6.62 pH	23.63 °C	772.80 µS/cm	6.17 mg/L	6.23 NTU	-56.5 mV	108.54 ft	200.00 ml/min
6/8/2022 3:10 PM	24:00	6.61 pH	23.23 °C	771.55 µS/cm	6.24 mg/L	5.24 NTU	-54.7 mV	108.51 ft	200.00 ml/min
6/8/2022 3:14 PM	28:00	6.61 pH	23.69 °C	771.25 µS/cm	6.20 mg/L	4.84 NTU	-54.9 mV	108.48 ft	200.00 ml/min
6/8/2022 3:15 PM	29:22	6.61 pH	23.64 °C	769.71 µS/cm	6.14 mg/L	4.78 NTU	-56.0 mV	108.48 ft	200.00 ml/min
6/8/2022 3:19 PM	33:22	6.59 pH	23.41 °C	773.52 µS/cm	6.30 mg/L	4.33 NTU	-51.5 mV	108.48 ft	200.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX A

**Instrument Calibration Forms
September 2021**

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J.Waguespack / E. Rheams / K. Minkara / D. Fulton

Instrument Calibration

Date: 09/09/21 09/13/21 09/14/21 09/14/21
 Time: 07:33 07:30 07:15

Parameter	Units	Standard	SmarTROLL SN 85075 iPad # 81	SmarTROLL SN 85075 iPad # 81	SmarTROLL SN 85075 iPad # 81	SmarTROLL SN 83513 iPad # 109
DO	% saturation	100	99.46	105.94	98.17	100.52
Conductivity	us/cm	4490	4509.7	4645.9	4257.4	4305.5
pH	S.U.	4.00	4.00	4.05	3.95	4.00
pH	S.U.	7.00	7.05	7.05	6.95	7.00
pH	S.U.	10.00	10.37	10.04	9.98	9.97
ORP	mV	228.00	228	225.3	229.4	226.1

Turbidity	Units	Standard	LaMotte SN 5990-3915	LaMotte SN 50410-3915	LaMotte SN 5990-3915	LaMotte SN 7007-1916
	NTU	0.0	0.0	0.0	0.77	0.33
	NTU	1.0	0.93	1.25	2.17	0.95
	NTU	10.0	9.03	9.87	9.109	10.14

Date: 09/10/21 09/13/21 09/14/21
 Time: 07:25 16:30 15:37

Parameter	Units	Standard	SmarTROLL SN 85075 iPad # 81	SmarTROLL SN 85075 iPad # 81	SmarTROLL SN 85075 iPad # 81	SmarTROLL SN iPad #
DO	% saturation	100	94.96			
Conductivity	us/cm	4490	4471.2			
pH	S.U.	4.00	4.02	4.03	4.01	
pH	S.U.	7.00	7.02	7.03	7.03	
pH	S.U.	10.00	10.05	9.78	9.69	
ORP	mV	228.00	234.0			

Turbidity	Units	Standard	LaMotte SN 50410-3915	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	0.01			
	NTU	1.0	0.98			
	NTU	10.0	9.28			

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 McDonough **Include daily mid-day pH check**
 Field Staff J. Waguespack / E. Rheams / K. Minkara / D. Fulton

Instrument Calibration

Date: 09/15/21 09/15/21 09/16/21
 Time: 07:30 08:00 08:00

Parameter	Units	Standard	SmarTROLL SN 850767 iPad # 81	SmarTROLL SN 843593 iPad # 109	SmarTROLL SN 850767 iPad # 81	SmarTROLL SN iPad #
DO	% saturation	100	99.83	97.73	101.90	
Conductivity	us/cm	4490	4426	4524.6	4476.6	
pH	S.U.	4.00	3.94	4.03	4.00	
pH	S.U.	7.00	6.92	7.00	7.00	
pH	S.U.	10.00	9.95	10.02	9.98	
ORP	mV	228.00	225.6	220.8	236.6	

	Units	Standard	LaMotte SN 5990-3915	LaMotte SN 7007-1416	LaMotte SN 5990-3915	LaMotte SN
Turbidity	NTU	0.0	0.0	0.01	0.68	
	NTU	1.0	0.92	0.87	0.81	
	NTU	10.0	9.93	9.98	9.64	

Date: 09/16/21 09/16/21
 Time: 0800

Parameter	Units	Standard	SmarTROLL SN 843593 iPad # 109	SmarTROLL SN 850767 iPad # 51	SmarTROLL SN iPad #	SmarTROLL SN iPad #
DO	% saturation	100	101.72			
Conductivity	us/cm	4490	4535.9			
pH	S.U.	4.00	4.04	4.01		
pH	S.U.	7.00	7.06	7.03		
pH	S.U.	10.00	10.00	10.07		
ORP	mV	228.00	229.0			

	Units	Standard	LaMotte SN 7007-1416	LaMotte SN	LaMotte SN	LaMotte SN
Turbidity	NTU	0.0	0.02			
	NTU	1.0	1.18			
	NTU	10.0	10.02			

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

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J.Waguespack / E. Rheams / K. Minkara / D. Fulton

Instrument Calibration

Date: 09/09/21 | 9/10/21 | 9/13/21 | 9/13/21
 Time: 05:05 | 07:51 | 09:24 | 12:30

Parameter	Units	Standard	SmarTROLL SN 843593 iPad # 109	SmarTROLL SN 843593 iPad # 109	SmarTROLL SN 843593 iPad # 109	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.51	106.00	96.53	
Conductivity	us/cm	4490	4722.8	4491.6	4693.1	
pH	S.U.	4.00	4.01	4.01	4.12	
pH	S.U.	7.00	7.05	7.01	7.07	7.00
pH	S.U.	10.00	9.98	10.05	10.03	
ORP	mV	228.00	227	235.5	228.0	

Turbidity	Units	Standard	LaMotte SN 7007-1416	LaMotte SN 7007-1416	LaMotte SN 7007-1416	LaMotte SN _____
	NTU	0.0	0.56	0.0	0.65	
	NTU	1.0	1.15	1.08	0.98	
	NTU	10.0	9.30	7.54	8.88	

Date: 9/13/21
 Time: 11:00

Parameter	Units	Standard	SmarTROLL SN 850724 iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	100.52			
Conductivity	us/cm	4490	4684.5			
pH	S.U.	4.00	4.02			
pH	S.U.	7.00	7.03			
pH	S.U.	10.00	10.0			
ORP	mV	228.00	220.5			

Turbidity	Units	Standard	LaMotte SN 1510-4111	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	-0.02			
	NTU	1.0	0.84			
	NTU	10.0	12.73			

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

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J.Waguespack / E. Rheams / K. Minkara / D. Fulton

Instrument Calibration

Date: 9-8-21 9-9-21 9-10-21
 Time: 1110 0830 1030

Parameter	Units	Standard	SmarTROLL SN 850724 iPad # 55	SmarTROLL SN 850724 iPad # 55	SmarTROLL SN 850724 iPad # 55	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	99.83	98.53	101.94	
Conductivity	us/cm	4490	3850	5244	4496	
pH	S.U.	4.00	3.50	3.99	3.98	
pH	S.U.	7.00	7.23	7.00	7.02	
pH	S.U.	10.00	9.97	9.96	10.04	
ORP	mV	228.00	223.8	227.4	232.6	

Turbidity	Units	Standard	LaMotte SN 1510-4111	LaMotte SN 1510-4111	LaMotte SN 1510-4111	LaMotte SN _____
	NTU	0.0	0.08	0.08	0.06	
	NTU	1.0	1.09	1.00	1.11	
	NTU	10.0	9.84	10.01	9.88	

Date: 9/8/21
 Time: 7w

Parameter	Units	Standard	SmarTROLL SN 84393 iPad # 109	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.86			
Conductivity	us/cm	4490	3852.3			
pH	S.U.	4.00	4.08			
pH	S.U.	7.00	7.07			
pH	S.U.	10.00	10.37			
ORP	mV	228.00	219.8			

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte 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

APPENDIX A

**Instrument Calibration Forms
January 2022**

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

		Date:	1/19/22			
		Time:	10:20			
Parameter	Units	Standard	SmarTROLL SN <u>728623</u> iPad # <u>No#</u>	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	102.30	-----		-----
Conductivity	us/cm	4490	5027.7	-----		-----
pH	S.U.	4.00	4.09			
pH	S.U.	7.00	7.26			
pH	S.U.	10.00	10.51			
ORP	mV	228.00	235.6	-----		-----

Turbidity	Units	Standard	LaMotte SN <u>5373-1515</u>	LaMotte SN _____	LaMotte SN <u>7009-1416</u>	LaMotte SN <u>1603-4411</u>
	NTU	0.0	0.0			~0.01
	NTU	1.0	0.80			1.13
	NTU	10.0	10.32			8.87

		Date:	01/27/22			
		Time:	0830			
Parameter	Units	Standard	SmarTROLL SN <u>851413</u> iPad # <u>80</u>	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	103.12	-----		-----
Conductivity	us/cm	4490	4537.6	-----		-----
pH	S.U.	4.00	4.08			
pH	S.U.	7.00	7.10			
pH	S.U.	10.00	10.14			
ORP	mV	228.00	232.2	-----		-----

Turbidity	Units	Standard	LaMotte SN <u>1438-3911</u>	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	~0.02			
	NTU	1.0	1.06			
	NTU	10.0	10.06			

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



Project Plant McDonough **Include daily mid-day pH check**
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

		Date:	1/19/22			
		Time:	0800			
Parameter	Units	Standard	SmarTROLL SN _____ iPad # _____	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4490	4134	-----		-----
pH	S.U.	4.00	3.954,01			
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00		-----		-----

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

		Date:				
		Time:				
Parameter	Units	Standard	SmarTROLL SN _____ iPad # _____	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
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	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte 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

Project Plant McDonough *Include daily mid-day pH check*
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

Parameter	Units	Standard	Date: 01/18/22		Date: 01/19/22	
			Time: 1500			Time: 0730
			SmarTROLL SN 851413 iPad # 80	Mid-Day pH	SmarTROLL SN 851413 iPad # 80	Mid-Day pH
DO	% saturation	100	103.45	-----	98.99	-----
Conductivity	us/cm	4490		-----	4488.2	-----
pH	S.U.	4.00			3.96	4.01
pH	S.U.	7.00			7.03	7.10
pH	S.U.	10.00			10.09	10.11
ORP	mV	228.00		-----	244.1	-----

Turbidity	Units	Standard	LaMotte SN 1438-3911	LaMotte SN	LaMotte SN 1438-3911	LaMotte SN 1438-3911
	NTU	0.0	0.04	0.01	0.01	
	NTU	1.0	1.07	1.13	1.13	
	NTU	10.0	9.92		10.01	

Parameter	Units	Standard	Date: 01/20/22		Date: 01/21/22	
			Time: 0730			Time: 0800
			SmarTROLL SN _____ iPad # _____	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	100.20	-----	101.40	-----
Conductivity	us/cm	4490	4584.2	-----	4626.5	-----
pH	S.U.	4.00	4.04	4.08	3.93	
pH	S.U.	7.00	7.03	6.98	7.04	
pH	S.U.	10.00	10.11	10.03	10.22	
ORP	mV	228.00	224.0	-----	240.2	-----

Turbidity	Units	Standard	LaMotte SN 1438-3911	LaMotte SN	LaMotte SN 1438-3911	LaMotte SN
	NTU	0.0	0.01		0.01	
	NTU	1.0	1.03		1.07	
	NTU	10.0	9.98		10.13	

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

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

		Date:	01/24/22		01/25/22	
		Time:	0730		0730	
Parameter	Units	Standard	SmarTROLL SN 851413 iPad # 80	Mid-Day pH	SmarTROLL SN 851413 iPad # 80	Mid-Day pH
DO	% saturation	100	92.41	-----	103.19	-----
Conductivity	us/cm	4490	4520.5	-----	4373.3	-----
pH	S.U.	4.00	4.03	3.99	4.08	
pH	S.U.	7.00	7.13	7.07	7.14	
pH	S.U.	10.00	10.09	9.98	10.17	
ORP	mV	228.00	228.9	-----	214.4	-----

Turbidity	Units	Standard	LaMotte SN 1438-3911	LaMotte SN 1491	LaMotte SN 1438-3911	LaMotte SN
	NTU	0.0	-0.03	80	-0.00	
	NTU	1.0	1.08		1.03	
	NTU	10.0	10.02		8.95	

		Date:	01/24/22			
		Time:	0730			
Parameter	Units	Standard	SmarTROLL SN 728623 iPad # _____	Mid-Day pH	SmarTROLL SN 850767 iPad # _____	Mid-Day pH
DO	% saturation	100	94.3	-----	103.15	-----
Conductivity	us/cm	4490	4608.9	-----	4388.5	-----
pH	S.U.	4.00	4.05		4.07	
pH	S.U.	7.00	6.97		7.51	
pH	S.U.	10.00	9.03		10.84	
ORP	mV	228.00	232.6	-----	249.6	-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte 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

B-1020
 BGWC-10

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

Parameter	Units	Standard	Date: 01/25/22		Date: 01/26/22	
			Time: 06:20	Time: 16:00	Time: 06:10	Time: 14:15
			SmarTROLL SN 850731 iPad # 2491	Mid-Day pH	SmarTROLL SN 850731 iPad # 2491	Mid-Day pH
DO	% saturation	100	93.89	-----	102.53	-----
Conductivity	us/cm	4490	4412.4	-----	4479.1	-----
pH	S.U.	4.00	4.10	4.03	3.94	4.00
pH	S.U.	7.00	7.07	7.03	6.98	7.07
pH	S.U.	10.00	10.07	10.07	10.04	10.04
ORP	mV	228.00	229.6	-----	230.3	-----

Turbidity	Units	Standard	LaMotte SN 5533-1515	LaMotte SN	LaMotte SN 5533-1515	LaMotte SN 5533-1515
	NTU	0.0	0.01		0.02	0.11
	NTU	1.0	1.01		1.25	1.07
	NTU	10.0	10.70		10.9	10.61

Parameter	Units	Standard	Date: 01/27/22		Date:	
			Time: 06:00	Time:	Time:	Time:
			SmarTROLL SN 850731 iPad # 2491	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	99.56	-----		-----
Conductivity	us/cm	4490	4431.1	-----		-----
pH	S.U.	4.00	3.96			
pH	S.U.	7.00	6.97			
pH	S.U.	10.00	10.07			
ORP	mV	228.00	232.9	-----		-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte 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

Project Plant McDonough
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Include daily mid-day pH check

Instrument Calibration

		Date:	01/18/22		01/19/22	
		Time:	14:30	—	05:20	15:25
Parameter	Units	Standard	SmarTROLL SN 850751 iPad #2491	Mid-Day pH	SmarTROLL SN 850751 iPad #2491	Mid-Day pH
DO	% saturation	100	110.166	-----	97.09	-----
Conductivity	us/cm	4490	3790	-----	4427.9	-----
pH	S.U.	4.00	3.97	NC	4.03	4.09
pH	S.U.	7.00	7.35	NC	7.03	7.10
pH	S.U.	10.00	12.75	NC	10.01	10.06
ORP	mV	228.00	233.5	-----	222.9	-----

Turbidity	Units	Standard	LaMotte SN 2491	LaMotte SN	LaMotte SN 2491	LaMotte SN 2491
	NTU	0.0	0.0	NC	0.02	0.02
	NTU	1.0	0.9	NC	0.97	0.97
	NTU	10.0	10.10	NC	10.40	10.42

		Date:	01/20/22		01/21/22	
		Time:	05:30	16:08	06:00	—
Parameter	Units	Standard	SmarTROLL SN 850751 iPad #2491	Mid-Day pH	SmarTROLL SN 850751 iPad #2491	Mid-Day pH
DO	% saturation	100	101.51	-----	101.20	-----
Conductivity	us/cm	4490	4440.5	-----	4414.2	-----
pH	S.U.	4.00	3.95	4.06	3.96	NC
pH	S.U.	7.00	6.97	7.08	6.96	NC
pH	S.U.	10.00	10.75	10.10	10.04	NC
ORP	mV	228.00	224.5	-----	232	-----

Turbidity	Units	Standard	LaMotte SN 2491	LaMotte SN 2491	LaMotte SN 5533	LaMotte SN
	NTU	0.0	0.0	NC	0.04	NC
	NTU	1.0	0.91	NC	1.01	NC
	NTU	10.0	10.34	NC	10.07	NC

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

Project Plant McDonough **Include daily mid-day pH check**
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

		Date:	1/25/22		1/25/22	
		Time:	0730	1215	0750	1231
Parameter	Units	Standard	SmarTROLL SN 543205 iPad # 76	Mid-Day pH	SmarTROLL SN 543205 iPad #	Mid-Day pH
DO	% saturation	100	100.13	-----	102.90	-----
Conductivity	us/cm	4490	4019.3	-----	3845.4	-----
pH	S.U.	4.00	4.03	4.01	4.03	4.06
pH	S.U.	7.00	7.08	7.06	7.13	7.09
pH	S.U.	10.00	10.09	10.07	10.08	10.02
ORP	mV	228.00	234.81	-----	214.6	-----

Turbidity	Units	Standard	LaMotte SN 2289-242	LaMotte SN 2289-242	LaMotte SN 2289-242	LaMotte SN
	NTU	0.0	0.03	0.05	0.01	0.01
	NTU	1.0	1.07	1.10	1.06	1.07
	NTU	10.0	9.94	10.07	10.10	10.09

		Date:	1/26/22			
		Time:	0734	1700		
Parameter	Units	Standard	SmarTROLL SN 543205 iPad # 76	Mid-Day pH	SmarTROLL SN iPad #	Mid-Day pH
DO	% saturation	100	98.17	-----		-----
Conductivity	us/cm	4490	4583.2	-----		-----
pH	S.U.	4.00	4.01	4.06		
pH	S.U.	7.00	7.07	7.08		
pH	S.U.	10.00	10.14	10.03		
ORP	mV	228.00	228.4	-----		-----

Turbidity	Units	Standard	LaMotte SN 2289-242	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	0.00	0.01		
	NTU	1.0	1.06	1.03		
	NTU	10.0	10.05	10.09		

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

Daily Calibration Log

Include daily mid-day pH check

Project Plant McDonough
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

		Date: 1/19/22 Time: 14:55		1/19/22		
Parameter	Units	Standard	SmarTROLL SN 043285 iPad # 76	Mid-Day pH	OBID 1350 SmarTROLL SN 843285 iPad # 76	Mid-Day pH
DO	% saturation	100	96.17	-----	101.2	-----
Conductivity	us/cm	4490	2476.9	-----	6383.2	-----
pH	S.U.	4.00	4.17	-----	3.44	4.01
pH	S.U.	7.00	7.75	-----	6.86	6.95
pH	S.U.	10.00	11.49	-----	9.77	10.09
ORP	mV	228.00	230.00	-----	242.8	-----

Turbidity	Units	Standard	LaMotte SN 2289-267	LaMotte SN 2289-267	LaMotte SN 2289-267	LaMotte SN 2289-267
	NTU	0.0	0.01	-----	0.00	0.00
	NTU	1.0	1.10	-----	1.10	1.04
	NTU	10.0	10.4	-----	9.99	10.6

		Date: 1/20/22 Time: 08:04		1/21/22		
Parameter	Units	Standard	SmarTROLL SN 843285 iPad # 76	Mid-Day pH	SmarTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	102.91	-----	101.84	-----
Conductivity	us/cm	4490	4557.7	-----	4551.2	-----
pH	S.U.	4.00	4.01	4.00	4.00	4.03
pH	S.U.	7.00	7.06	7.03	7.05	7.06
pH	S.U.	10.00	10.06	9.99	10.09	10.08
ORP	mV	228.00	219.4	-----	234.3	-----

Turbidity	Units	Standard	LaMotte SN 2289-267	LaMotte SN 2289-267	LaMotte SN 2289-267	LaMotte SN -----
	NTU	0.0	0.0	0.01	0.01	0.01
	NTU	1.0	1.04	1.06	1.07	1.06
	NTU	10.0	10.06	10.10	10.05	10.09

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

APPENDIX A

**Instrument Calibration Forms
June 2022**

Daily Calibration Log

Project Plant McDonough
 Field Staff J. Waguespack, C. Tidwell, J. Booth

Include daily mid-day pH check

Instrument Calibration

		Date:	6/6/22			
		Time:	8:00			
Parameter	Units	Standard	AquaTROLL SN <u>843285</u> iPad # _____	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	100	-----		-----
Conductivity	us/cm	4490	4473	-----		-----
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	9.99			
ORP	mV	228.00	227.03	-----		-----

Turbidity	Units	Standard	Hach SN <u>1705001775</u>	Hach SN	Hach SN	Hach SN
	NTU	20	20.7			
	NTU	100	98.0			
	NTU	800	791			
	NTU	10.0				

		Date:				
		Time:				
Parameter	Units	Standard	AquaTROLL SN _____ iPad # _____	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
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	20				
	NTU	100				
	NTU	800				
	NTU	10.0				

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

Project Plant McDonough
 Field Staff J. Waguespack, C. Tidwell, J. Booth

Include daily mid-day pH check

Instrument Calibration

		Date:	6/6/22			
		Time:	8:02			
Parameter	Units	Standard	AquaTROLL SN <u>851413</u> iPad # <u>78</u>	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	<u>101.33</u>	-----		-----
Conductivity	us/cm	4490	<u>4618.9</u>	-----		-----
pH	S.U.	4.00	<u>4.09</u>			
pH	S.U.	7.00	<u>7.05</u>			
pH	S.U.	10.00	<u>10.11</u>			
ORP	mV	228.00	<u>219.0</u>	-----		-----

Turbidity	Units	Standard	Hach SN <u>11050C009431</u>	Hach SN	Hach SN	Hach SN
	NTU	20	<u>19.7</u>			
	NTU	100	<u>100</u>			
	NTU	800	<u>795</u>			
	NTU	10.0	<u>10.3</u>			

		Date:				
		Time:				
Parameter	Units	Standard	AquaTROLL SN _____ iPad # _____	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
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	20				
	NTU	100				
	NTU	800				
	NTU	10.0				

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 McDonough
 Field Staff J. Waguespack, C. Tidwell, J. Booth

Include daily mid-day pH check

Instrument Calibration

		Date:	6-6-22		6-7-22	
		Time:	8:00		7:50	
Parameter	Units	Standard	AquaTROLL SN <u>884189</u> iPad # <u>94</u>	Mid-Day pH	AquaTROLL SN <u>884189</u> iPad # <u>94</u>	Mid-Day pH
DO	% saturation	100	101.92	-----	105.13	-----
Conductivity	us/cm	4490	4626	-----	4456	-----
pH	S.U.	4.00	4.08 4.11	4.11	3.96	
pH	S.U.	7.00	6.89	7.02	6.97	
pH	S.U.	10.00	10.08	10.05	10.01	
ORP	mV	228.00	219.3	-----	229.1	-----

		6-7-22				
Turbidity	Units	Standard	Hach SN <u>15040040490</u>	Hach SN <u>15040040490</u>	Hach SN	Hach SN
	NTU	20	20.6	20.4		
	NTU	100	102	101		
	NTU	800	792	797		
	NTU	10.0	10.5	10.6		

		Date:	6/8/22		6/9/22	
		Time:	9:50		14:50	
Parameter	Units	Standard	AquaTROLL SN <u>84325</u> iPad # <u>72</u>	Mid-Day pH	AquaTROLL SN <u>84325</u> iPad # <u>72</u>	Mid-Day pH
DO	% saturation	100	100.71	-----	102.59*	-----
Conductivity	us/cm	4490	4526.5	-----	4328.4	-----
pH	S.U.	4.00	4.00		4.00	
pH	S.U.	7.00	6.94		6.98	
pH	S.U.	10.00	9.93		9.96	
ORP	mV	228.00	232.9	-----	225.5	-----

Turbidity	Units	Standard	Hach SN <u>12050017105</u>	Hach SN	Hach SN <u>12050017105</u>	Hach SN
	NTU	20	21.0		17.6	
	NTU	100	101.0		102	
	NTU	800	803		795	
	NTU	10.0	9.04		8.91	

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

* DO nominal after 10 mins

APPENDIX B

Laboratory Analytical Data, Data Validation Summaries
and Laboratory Accreditation

APPENDIX B

**Analytical Results
September 2021**

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560138001	DGWA-71	Water	09/08/21 14:40	09/09/21 08:45
92560138002	DGWA-53	Water	09/09/21 12:29	09/10/21 17:40
92560138003	DGWA-70A	Water	09/09/21 14:56	09/10/21 17:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560138001	DGWA-71	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560138002	DGWA-53	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560138003	DGWA-70A	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Sample: DGWA-71		Lab ID: 92560138001		Collected: 09/08/21 14:40		Received: 09/09/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/09/21 10:15		
pH	5.76	Std. Units			1		09/09/21 10:15		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.1	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:43	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:08	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:08	7440-39-3	
Beryllium	0.000091J	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:08	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000096J	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	75.0	mg/L	10.0	10.0	1		09/15/21 18:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.9	mg/L	1.0	0.60	1		09/14/21 18:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/14/21 18:43	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		09/14/21 18:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

Sample: DGWA-53		Lab ID: 92560138002		Collected: 09/09/21 12:29		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 08:32		
pH	6.41	Std. Units			1		09/13/21 08:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	18.3	mg/L	1.0	0.12	1	09/17/21 11:09	09/17/21 18:31	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/17/21 11:11	09/17/21 15:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 15:49	7440-38-2	
Barium	0.099	mg/L	0.0050	0.00067	1	09/17/21 11:11	09/17/21 15:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/17/21 11:11	09/17/21 15:49	7440-41-7	
Boron	0.065	mg/L	0.040	0.0086	1	09/17/21 11:11	09/17/21 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/17/21 11:11	09/17/21 15:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 15:49	7440-47-3	
Cobalt	0.0064	mg/L	0.0050	0.00039	1	09/17/21 11:11	09/17/21 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/17/21 11:11	09/17/21 15:49	7439-92-1	
Lithium	0.0091J	mg/L	0.030	0.00073	1	09/17/21 11:11	09/17/21 15:49	7439-93-2	
Molybdenum	0.025	mg/L	0.010	0.00074	1	09/17/21 11:11	09/17/21 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/17/21 11:11	09/17/21 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/17/21 11:11	09/17/21 15:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	131	mg/L	10.0	10.0	1		09/15/21 18:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		09/15/21 05:52	16887-00-6	
Fluoride	0.099J	mg/L	0.10	0.050	1		09/15/21 05:52	16984-48-8	
Sulfate	11.9	mg/L	1.0	0.50	1		09/15/21 05:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

Sample: DGWA-70A		Lab ID: 92560138003		Collected: 09/09/21 14:56		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 08:33		
pH	5.50	Std. Units			1		09/13/21 08:33		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.3	mg/L	1.0	0.12	1	09/17/21 11:09	09/17/21 19:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0015J	mg/L	0.0030	0.00078	1	09/17/21 11:11	09/17/21 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:11	7440-38-2	
Barium	0.038	mg/L	0.0050	0.00067	1	09/17/21 11:11	09/17/21 16:11	7440-39-3	
Beryllium	0.000089J	mg/L	0.00050	0.000054	1	09/17/21 11:11	09/17/21 16:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/17/21 11:11	09/17/21 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/17/21 11:11	09/17/21 16:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/17/21 11:11	09/17/21 16:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/17/21 11:11	09/17/21 16:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/17/21 11:11	09/17/21 16:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/17/21 11:11	09/17/21 16:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/17/21 11:11	09/17/21 16:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/17/21 11:11	09/17/21 16:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		09/15/21 18:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.9	mg/L	1.0	0.60	1		09/15/21 06:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 06:07	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 06:07	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

QC Batch: 646610	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138001

METHOD BLANK: 3391819 Matrix: Water

Associated Lab Samples: 92560138001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/21 14:48	

LABORATORY CONTROL SAMPLE: 3391820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391821 3391822

Parameter	Units	3391821		3391822		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	1.4	1	1	2.5	2.5	106	109	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 648035

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138002, 92560138003

METHOD BLANK: 3398813

Matrix: Water

Associated Lab Samples: 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/17/21 18:21	

LABORATORY CONTROL SAMPLE: 3398814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398815 3398816

Parameter	Units	3398815		3398816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	18.3	1	1	18.8	19.3	57	102	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

QC Batch: 646612 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138001

METHOD BLANK: 3391827 Matrix: Water
Associated Lab Samples: 92560138001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/14/21 17:25	
Arsenic	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Barium	mg/L	ND	0.0050	0.00067	09/14/21 17:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/21 17:25	
Boron	mg/L	ND	0.040	0.0086	09/14/21 17:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/21 17:25	
Chromium	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/21 17:25	
Lead	mg/L	ND	0.0010	0.00089	09/14/21 17:25	
Lithium	mg/L	ND	0.030	0.00073	09/14/21 17:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/21 17:25	
Selenium	mg/L	ND	0.0050	0.0014	09/14/21 17:25	
Thallium	mg/L	ND	0.0010	0.00018	09/14/21 17:25	

LABORATORY CONTROL SAMPLE: 3391828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830

Parameter	Units	92559417001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Parameter	Units	3391829		3391830		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	98	99	75-125	0	20		
Beryllium	mg/L	0.00016J	0.1	0.1	0.097	0.099	97	98	75-125	2	20		
Boron	mg/L	1.2	1	1	2.3	2.5	92	116	75-125	10	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20		
Lithium	mg/L	0.0014J	0.1	0.1	0.099	0.10	98	102	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20		
Selenium	mg/L	0.021	0.1	0.1	0.12	0.12	100	101	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

QC Batch: 648036 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138002, 92560138003

METHOD BLANK: 3398822 Matrix: Water
Associated Lab Samples: 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/21 15:37	
Arsenic	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Barium	mg/L	ND	0.0050	0.00067	09/17/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/21 15:37	
Boron	mg/L	ND	0.040	0.0086	09/17/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/21 15:37	
Chromium	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/21 15:37	
Lead	mg/L	ND	0.0010	0.00089	09/17/21 15:37	
Lithium	mg/L	ND	0.030	0.00073	09/17/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/21 15:37	
Selenium	mg/L	ND	0.0050	0.0014	09/17/21 15:37	
Thallium	mg/L	ND	0.0010	0.00018	09/17/21 15:37	

LABORATORY CONTROL SAMPLE: 3398823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398824 3398825

Parameter	Units	92560138002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Parameter	Units	3398824		3398825		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92560138002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.099	0.1	0.1	0.21	0.20	114	102	75-125	6	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.096	91	96	75-125	5	20	
Boron	mg/L	0.065	1	1	0.97	1.0	91	97	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20	
Cobalt	mg/L	0.0064	0.1	0.1	0.11	0.10	105	98	75-125	7	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20	
Lithium	mg/L	0.0091J	0.1	0.1	0.10	0.11	94	99	75-125	5	20	
Molybdenum	mg/L	0.025	0.1	0.1	0.13	0.12	101	99	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	92	95	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

QC Batch: 648337	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138001, 92560138002

METHOD BLANK: 3400307 Matrix: Water
Associated Lab Samples: 92560138001, 92560138002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 12:04	

LABORATORY CONTROL SAMPLE: 3400308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400309 3400310

Parameter	Units	3400309		3400310		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0026	0.0024	103	96	75-125	7	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

QC Batch: 649458	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
Associated Lab Samples: 92560138003	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3406292 Matrix: Water
Associated Lab Samples: 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 15:32	

LABORATORY CONTROL SAMPLE: 3406293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406294 3406295

Parameter	Units	3406294		3406295		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560138003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0027	0.0027	108	105	75-125	3	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 647027	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138001, 92560138002, 92560138003

METHOD BLANK: 3393790 Matrix: Water

Associated Lab Samples: 92560138001, 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/15/21 18:56	

LABORATORY CONTROL SAMPLE: 3393791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3393792

Parameter	Units	92560138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	78.0	4	10	

SAMPLE DUPLICATE: 3393793

Parameter	Units	92560281005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	139	4	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 646605	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560138001

METHOD BLANK: 3391813 Matrix: Water

Associated Lab Samples: 92560138001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/21 00:59	
Fluoride	mg/L	ND	0.10	0.050	09/13/21 00:59	
Sulfate	mg/L	ND	1.0	0.50	09/13/21 00:59	

LABORATORY CONTROL SAMPLE: 3391814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.8	96	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391815 3391816

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560365001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	8.8	50	50	60.2	60.8	103	104	90-110	1	10		
Fluoride	mg/L	0.12	2.5	2.5	2.7	2.8	104	105	90-110	1	10		
Sulfate	mg/L	11.1	50	50	63.3	63.9	104	106	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391817 3391818

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560722009 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	186	50	50	233	234	94	96	90-110	0	10		
Fluoride	mg/L	0.24	2.5	2.5	2.9	2.9	107	108	90-110	1	10		
Sulfate	mg/L	168	50	50	189	190	41	43	90-110	1	10 M1		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

QC Batch: 647162 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560138002, 92560138003

METHOD BLANK: 3394748 Matrix: Water
Associated Lab Samples: 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		3394750		3394751		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10 M1
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10 M1
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		3394752		3394753		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10 M1
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		3394754		3394755		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10 M1
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10 M1
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	90-110	2	10 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92560138

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560138001	DGWA-71				
92560138002	DGWA-53				
92560138003	DGWA-70A				
92560138001	DGWA-71	EPA 3010A	646610	EPA 6010D	646635
92560138002	DGWA-53	EPA 3010A	648035	EPA 6010D	648116
92560138003	DGWA-70A	EPA 3010A	648035	EPA 6010D	648116
92560138001	DGWA-71	EPA 3005A	646612	EPA 6020B	646637
92560138002	DGWA-53	EPA 3005A	648036	EPA 6020B	648158
92560138003	DGWA-70A	EPA 3005A	648036	EPA 6020B	648158
92560138001	DGWA-71	EPA 7470A	648337	EPA 7470A	648433
92560138002	DGWA-53	EPA 7470A	648337	EPA 7470A	648433
92560138003	DGWA-70A	EPA 7470A	649458	EPA 7470A	649537
92560138001	DGWA-71	SM 2540C-2011	647027		
92560138002	DGWA-53	SM 2540C-2011	647027		
92560138003	DGWA-70A	SM 2540C-2011	647027		
92560138001	DGWA-71	EPA 300.0 Rev 2.1 1993	646605		
92560138002	DGWA-53	EPA 300.0 Rev 2.1 1993	647162		
92560138003	DGWA-70A	EPA 300.0 Rev 2.1 1993	647162		


REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <u>GA Power</u>	Project #:	WO# : 92560138
	Courier: <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____		

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/9/21
 Biological Tissue Frozen? Yes No N/A LOV

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

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

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION _____

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

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

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

Project #

WO# : 92560138

PM: NMG

Due Date: 09/23/21

CLIENT: GR-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

pH Adjustment Log for Preserved Samples

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

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

Page Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Requested Client Information: Requested Project Information: Section B Invoice Information: Section C

Requested Client Information: Georgia Power - Coal Combustion Residuals
 Address: 2480 Marner Road
 Atlanta, GA 30339
 Requested Date: 10 Day TAT
 Report To: Jay Abraham
 Copy To: Collier
 Purchase Order #: Plant McDonough Upgradient Wells
 Project Name: Plant McDonough Upgradient Wells
 Project #: 166849621
 Invoice Information: Attention: kourmestza@southflor.com
 Address: A310115
 Plant Order: Plant Order Manager: Kevin Herring
 Project Profile #:
 Regulatory Agency:
 State / Location: CA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	PH = 5.79
3	Drinking Water	DW	WT	G	9/9/2021	14:40		5	Unpreserved - Ice H2SO4 HNO3 + Ice HCl NaOH + Zn Acetate Na2B2O3 Methanol Other	App III/IV Total Metals Cl, F, SO4, TDS Radium 226/228	N N N N N N N N N N N N N N N		
4	Waste Water	WW											
5	Product Water	P											
6	Waste	W											
7	Other	OT											
8	Other	OT											
9	Other	OT											
10	Other	OT											
11	Other	OT											
12	Other	OT											
13	Other	OT											
14	Other	OT											
15	Other	OT											
16	Other	OT											

ADDITIONAL COMMENTS:
 RELINQUISHED BY / AFFILIATION:
 DATE: 9/9/21 TIME: 8:11
 ACCEPTED BY / AFFILIATION:
 DATE: 9/9/21 TIME: 8:10
 SAMPLE CONDITIONS:
 TEMP in C:
 Received on Ice (Y/N):
 Custody Sealed Cooler (Y/N):
 Samples Intact (Y/N):
 Use McGuespack
 DATE Signed: 9/9/21

**Laboratory receiving samples:**

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

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

Custody Seal Present? Yes No **Seals Intact?** Yes No

Date/Initials Person Examining Contents: MT 9/10/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 **Type of Ice:** Wet Blue None

Yes No N/A

Cooler Temp: 3.4 **Correction Factor:** Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project #

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		✓	✓			✓																							
2		✓	✓			✓																							
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: Page: 1 of 1

Required Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Meiner Road Atlanta, GA 30339 Email: jbraham@southemco.com Phone: (404) 506-7239 Requested Due Date: 10 Day TAT	Required Project Information: Report To: Joui Abraham Copy To: Golder Purchase Order #: _____ Project Name: Plant McDonough Upgradient Wells Project #: 166949621
Section C Invoice Information: Attention: scservices@southemco.com Company Name: _____ Address: _____ Pace Quote: _____ Pace Project Manager: Kevin Herring Pace Profile #: _____	Regulatory Agency: _____ State / Location: GA

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINER	Preservatives						Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
							H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol							Other
3	DGWA-53	G	9/9/2021	12:29		5	2	3											
5	DGWA-70A	G	9/9/2021	14:56		5	2	3											
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

ADDITIONAL COMMENTS: REMUNISHED BY / AFFILIATION: <i>Mr. Sam Per</i> DATE: <i>9/10/21</i> TIME: <i>1:40</i> ACCEPTED BY / AFFILIATION: <i>Kevin Herring</i> DATE: <i>9/10/21</i> TIME: <i>9:41</i>	DATE Signed: <i>9/10/21</i>
---	-----------------------------

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92560136

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92560136

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92560136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560136001	DGWA-71	Water	09/08/21 14:40	09/09/21 08:45
92560136002	DGWA-53	Water	09/09/21 12:29	09/10/21 17:40
92560136003	DGWA-70A	Water	09/09/21 14:56	09/10/21 17:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560136001	DGWA-71	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560136002	DGWA-53	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560136003	DGWA-70A	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-71 Lab ID: 92560136001 Collected: 09/08/21 14:40 Received: 09/09/21 08:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0510 ± 0.152 (0.378) C:99% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.185 ± 0.324 (0.789) C:67% T:102%	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0510 ± 0.476 (1.17)	pCi/L	10/07/21 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-53 Lab ID: 92560136002 Collected: 09/09/21 12:29 Received: 09/10/21 17:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.42 ± 0.444 (0.373) C:94% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.30 ± 0.523 (0.809) C:66% T:86%	pCi/L	10/04/21 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.72 ± 0.967 (1.18)	pCi/L	10/06/21 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Sample: DGWA-70A **Lab ID: 92560136003** Collected: 09/09/21 14:56 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0648 ± 0.150 (0.456) C:97% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.779 ± 0.425 (0.759) C:67% T:90%	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.779 ± 0.575 (1.22)	pCi/L	10/06/21 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136001

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92560136001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465347

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136001

METHOD BLANK: 2247077

Matrix: Water

Associated Lab Samples: 92560136001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136002, 92560136003

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560136002, 92560136003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136002, 92560136003

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560136002, 92560136003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92560136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560136001	DGWA-71	EPA 9315	465347		
92560136002	DGWA-53	EPA 9315	465344		
92560136003	DGWA-70A	EPA 9315	465344		
92560136001	DGWA-71	EPA 9320	465345		
92560136002	DGWA-53	EPA 9320	465343		
92560136003	DGWA-70A	EPA 9320	465343		
92560136001	DGWA-71	Total Radium Calculation	467213		
92560136002	DGWA-53	Total Radium Calculation	467011		
92560136003	DGWA-70A	Total Radium Calculation	467011		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project **WO# : 92560136**

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/9/21 LOJ

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92560136

PM: NMG

Due Date: 09/30/21

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

CLIENT: GA-GA Power

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGfU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Requested Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Mower Road Atlanta, GA 30339 Email: jbrantam@southernco.com Phone: (404) 502-7238 Fax: (404) 502-7238 Requested Due Date: 10 Day TAT	Section B Required Project Information: Report To: Joe Abraham Copy To: Collier Project Name: Plant McDonough Upgradient Wells Purchase Order #: 16884821 Project # 16884821
Section C Invoice Information: Attention: jbrantam@southernco.com Company Name: Southern Company Price Order: A331915 Price Project Manager: Kevin Henning Price Profile #:	Regulatory Agency: State / Location: GA

Page : 1 Of 1

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test				Residual Chlorine (Y/N)	pH = 5.75			
						# OF CONTAINERS	Unpreserved Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	Y/N			Y/N	Y/N	
3	DCWMA71	G	9/9/21	14:40		5	2	3													
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

REQUISITIONED BY / AFFILIATION: SPU.../SAR/RA DATE: 9/9/21 TIME: 8:11
 ACCEPTED BY / AFFILIATION: Plant McDonough DATE: 9/9/21 TIME: 8:10
 DATE Signed: 9/9/21

**Laboratory receiving samples:**

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/10/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

 Yes No N/A

Thermometer:

IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp:

3.4 Correction Factor: Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.5USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

 Yes NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No**Comments/Discrepancy:**

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

COMMENTS/SAMPLE DISCREPANCYField Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project #

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		✓	✓			✓																							
2		✓	✓			✓																							
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: CLA
Date: 9/28/2021
Worklist: 62851
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247077
MB concentration:	-0.028
M/B Counting Uncertainty:	0.217
MB MDC:	0.589
MB Numerical Performance Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62851	LCS062851
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.508
Target Conc. (pCi/L, g, F):	4.792	4.734
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	4.037	4.418
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.623	0.646
Numerical Performance Indicator:	-2.37	-0.95
Percent Recovery:	84.25%	93.33%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	92560765014
Duplicate Sample I.D.:	92560765014DUP
Sample Result (pCi/L, g, F):	0.428
Sample Result Counting Uncertainty (pCi/L, g, F):	0.225
Sample Duplicate Result (pCi/L, g, F):	0.178
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.185
Are sample and/or duplicate results below RL?	See Below
Duplicate Numerical Performance Indicator:	1.678 OK
Duplicate Status vs Numerical Indicator:	82.59%
Duplicate Status vs RPD:	N/A
% RPD Limit:	Fail***
	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

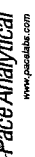
***Batch must be re-prepped due to unacceptable precision.

L/MDCs N/A

10/7/21
DW

10/17/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/1/2021
Worklist: 62848
Matrix: WT

Method Blank Assessment

MB Sample ID: 2247069
MB concentration: 0.209
MB 2 Sigma CSU: 0.287
MB MDC: 0.612
MB Numerical Performance Indicator: 1.43
MB Status vs Numerical Indicator: Pass
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCS (Y or N)?	Y
10/4/2021	LCS62848	
21-029	LCS62848	
37.973		
0.10		
0.807		
4.703		
0.230		
3.772		
4.931		
1.094		
0.892		
-1.98		
80.20%		
N/A		
Pass		
135%		
60%		

Decay Corrected Spike Concentration (pCi/mL):
Volume Used (mL):
Aliquot Volume (L, g, F):
Target Conc. (pCi/L, g, F):
Uncertainty (Calculated):
Result (pCi/L, g, F):
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):
Numerical Performance Indicator:
Percent Recovery:
Status vs Numerical Indicator:
Upper % Recovery Limits:
Lower % Recovery Limits:

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate (Percent Recoveries) Duplicate RPD:
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
MSD Spike Uncertainty (calculated):
MS Spike Uncertainty (calculated):
MS Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:
MS/MSD Upper % Recovery Limits:
MS/MSD Lower % Recovery Limits:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Matrix Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
Duplicate (Percent Recoveries) MS/MSD Duplicate RPD:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10521

10/1/21
JC2

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/1/2021
Worklist: 62850
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247073
MB concentration:	0.306
MB 2 Sigma CSU:	0.283
MB MDC:	0.572
MB Numerical Performance Indicator:	2.12
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62850	Y
Count Date:	10/4/2021	LCS62850
Spike I.D.:	21-029	10/4/2021
Decay Corrected Spike Concentration (pCi/mL):	37.973	21-029
Volume Used (mL):	0.10	37.973
Aliquot Volume (L, g, F):	0.805	0.10
Target Conc. (pCi/L, g, F):	4.716	0.816
Uncertainty (Calculated):	0.231	4.653
Result (pCi/L, g, F):	5.361	0.228
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.173	4.280
Numerical Performance Indicator:	1.06	0.992
Percent Recovery:	113.68%	-0.72
Status vs Numerical Indicator:	N/A	91.98%
Status vs Recovery:	Pass	N/A
Upper % Recovery Limits:	135%	Pass
Lower % Recovery Limits:	60%	135%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62850
Duplicate Sample I.D.:	LCS62850
Sample Result (pCi/L, g, F):	5.361
Sample Duplicate Result (pCi/L, g, F):	1.173
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.992
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.380
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.11%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

10/5/21

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Relatio
CMM*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/28/2021
Worklist: 62849
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247072
MB concentration:	0.007
M/B Counting Uncertainty:	0.168
MB MDC:	0.443
MB Numerical Performance Indicator:	0.08
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS/D (Y or N)?	LCS/D (Y or N)?	
	LCS62849	LCS62849
Count Date:	10/6/2021	10/6/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Alliquot Volume (L, g, F):	0.502	0.502
Target Conc. (pCi/L, g, F):	4.779	4.791
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.249	5.218
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.691	0.720
Numerical Performance Indicator:	1.33	1.16
Percent Recovery:	109.83%	108.93%
Status vs Numerical Indicator:	Pass	N/A
Upper % Recovery Limits:	125%	Pass
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92560766017
Duplicate Sample I.D.:	92560766017DUP
Sample Result (pCi/L, g, F):	0.383
Sample Duplicate Result (pCi/L, g, F):	0.227
Sample Result Counting Uncertainty (pCi/L, g, F):	0.691
Sample Duplicate Result (pCi/L, g, F):	0.174
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.199
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.060
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.82%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch cannot be re-prepped due to unacceptable precision. N/A

11/10/21
SAM 12/10/21

12/10/21
SAM 12/10/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):</p> <p>Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Dear Joju Abraham:


Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560774001	DGWC-2	Water	09/09/21 13:10	09/10/21 17:40
92560774002	DGWC-11	Water	09/09/21 09:55	09/10/21 17:40
92560774003	DGWC-12	Water	09/09/21 14:25	09/10/21 17:40
92560774004	DGWC-13	Water	09/09/21 15:10	09/10/21 17:40
92560774005	DGWC-14	Water	09/09/21 15:50	09/10/21 17:40
92560774006	DGWC-15	Water	09/09/21 13:49	09/10/21 17:40
92560774007	DGWC-19	Water	09/09/21 15:48	09/10/21 17:40
92560774008	DGWC-21	Water	09/09/21 12:43	09/10/21 17:40
92560774009	DGWC-23	Water	09/09/21 12:15	09/10/21 17:40
92560774010	EB-1	Water	09/09/21 16:40	09/10/21 17:40
92560774011	FB-1	Water	09/09/21 13:40	09/10/21 17:40
92560774012	DGWC-4	Water	09/10/21 11:08	09/10/21 17:40
92560774013	DGWC-5	Water	09/10/21 14:32	09/10/21 17:40
92560774014	DUP-2	Water	09/10/21 00:00	09/10/21 17:40
92560774015	DGWC-9	Water	09/10/21 11:32	09/10/21 17:40
92560774016	FB-2	Water	09/10/21 11:00	09/10/21 17:40
92560774017	DGWC-10	Water	09/10/21 13:30	09/10/21 17:40
92560774018	DGWC-20	Water	09/10/21 12:48	09/10/21 17:40
92560774019	DGWC-22	Water	09/10/21 12:58	09/10/21 17:40
92560774020	DGWC-47	Water	09/10/21 11:00	09/10/21 17:40
92560774021	DGWC-48	Water	09/10/21 10:56	09/10/21 17:40
92560774022	DUP-1	Water	09/10/21 00:00	09/10/21 17:40
92560774023	EB-2	Water	09/10/21 10:35	09/10/21 17:40
92560774024	DGWC-8	Water	09/13/21 11:00	09/14/21 09:35
92560774025	DGWC-17	Water	09/13/21 11:04	09/14/21 09:35
92560774026	DGWC-42	Water	09/13/21 15:00	09/14/21 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774001	DGWC-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774002	DGWC-11	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774003	DGWC-12	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774004	DGWC-13	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774005	DGWC-14	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774006	DGWC-15	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774007	DGWC-19	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774008	DGWC-21	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774009	DGWC-23	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774010	EB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774011	FB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774012	DGWC-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774013	DGWC-5	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774014	DUP-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774015	DGWC-9	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774016	FB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774017	DGWC-10	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774018	DGWC-20	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774019	DGWC-22	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774020	DGWC-47	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774021	DGWC-48	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774022	DUP-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774023	EB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774024	DGWC-8	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92560774025	DGWC-17	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774026	DGWC-42	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-2 **Lab ID: 92560774001** Collected: 09/09/21 13:10 Received: 09/10/21 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:05		
pH	6.00	Std. Units			1		09/13/21 10:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	42.0	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 17:37	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:21	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:21	7440-41-7	
Boron	0.51	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:21	7440-47-3	
Cobalt	0.0048J	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:21	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:21	7439-93-2	
Molybdenum	0.0023J	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:21	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	260	mg/L	10.0	10.0	1		09/16/21 14:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		09/15/21 09:13	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		09/15/21 09:13	16984-48-8	
Sulfate	110	mg/L	2.0	1.0	2		09/15/21 19:02	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-11		Lab ID: 92560774002		Collected: 09/09/21 09:55		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:05		
pH	5.59	Std. Units			1		09/13/21 10:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	66.8	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 17:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:44	7440-38-2	
Barium	0.054	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:44	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:44	7440-41-7	
Boron	1.5	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:44	7440-47-3	
Cobalt	0.00081J	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:44	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	433	mg/L	10.0	10.0	1		09/16/21 14:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.6	mg/L	1.0	0.60	1		09/15/21 09:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 09:28	16984-48-8	
Sulfate	247	mg/L	6.0	3.0	6		09/15/21 19:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-12		Lab ID: 92560774003		Collected: 09/09/21 14:25	Received: 09/10/21 17:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:05		
pH	6.07	Std. Units			1		09/13/21 10:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	29.2	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:11	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:49	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:49	7440-39-3	
Beryllium	0.000084J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:49	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:49	7440-47-3	
Cobalt	0.034	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	275	mg/L	10.0	10.0	1		09/16/21 14:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.5	mg/L	1.0	0.60	1		09/15/21 09:44	16887-00-6	
Fluoride	0.099J	mg/L	0.10	0.050	1		09/15/21 09:44	16984-48-8	
Sulfate	126	mg/L	3.0	1.5	3		09/15/21 19:34	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-13		Lab ID: 92560774004		Collected: 09/09/21 15:10		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:05		
pH	5.69	Std. Units			1		09/13/21 10:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	38.2	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:16	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:55	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:55	7440-39-3	
Beryllium	0.000070J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:55	7440-41-7	
Boron	0.62	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:55	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:55	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:55	7439-98-7	
Selenium	0.0060	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	246	mg/L	10.0	10.0	1		09/16/21 14:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	12.9	mg/L	1.0	0.60	1		09/15/21 09:59	16887-00-6	
Fluoride	0.083J	mg/L	0.10	0.050	1		09/15/21 09:59	16984-48-8	
Sulfate	127	mg/L	3.0	1.5	3		09/15/21 19:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-14		Lab ID: 92560774005		Collected: 09/09/21 15:50		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:06		
pH	5.70	Std. Units			1		09/13/21 10:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.1	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:15	7440-38-2	
Barium	0.059	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:15	7440-41-7	
Boron	0.080	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:15	7439-92-1	
Lithium	0.0044J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:15	7439-98-7	
Selenium	0.0017J	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	99.0	mg/L	10.0	10.0	1		09/16/21 14:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.3	mg/L	1.0	0.60	1		09/15/21 10:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 10:15	16984-48-8	
Sulfate	42.3	mg/L	1.0	0.50	1		09/15/21 10:15	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-15		Lab ID: 92560774006		Collected: 09/09/21 13:49		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:06		
pH	5.83	Std. Units			1		09/13/21 10:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	34.4	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:20	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:20	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:20	7440-47-3	
Cobalt	0.0016J	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:20	7439-92-1	
Lithium	0.0057J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	292	mg/L	10.0	10.0	1		09/16/21 14:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	21.9	mg/L	1.0	0.60	1		09/15/21 10:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 10:30	16984-48-8	
Sulfate	139	mg/L	3.0	1.5	3		09/15/21 20:36	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-19		Lab ID: 92560774007		Collected: 09/09/21 15:48		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:06		
pH	4.82	Std. Units			1		09/13/21 10:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	93.6	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:30	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:26	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:26	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:26	7440-39-3	
Beryllium	0.0022	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:26	7440-41-7	
Boron	2.7	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:26	7440-42-8	
Cadmium	0.00037J	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:26	7440-43-9	
Chromium	0.0030J	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:26	7440-47-3	
Cobalt	0.055	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:26	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:26	7439-98-7	
Selenium	0.0083	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:26	7782-49-2	
Thallium	0.00056J	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	480	mg/L	20.0	20.0	1		09/16/21 14:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	25.4	mg/L	1.0	0.60	1		09/15/21 11:17	16887-00-6	
Fluoride	0.18	mg/L	0.10	0.050	1		09/15/21 11:17	16984-48-8	
Sulfate	315	mg/L	7.0	3.5	7		09/15/21 20:51	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-21		Lab ID: 92560774008		Collected: 09/09/21 12:43		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:06		
pH	5.73	Std. Units			1		09/13/21 10:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	75.3	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:32	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:32	7440-39-3	
Beryllium	0.00018J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:32	7440-41-7	
Boron	5.8	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:32	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:32	7440-47-3	
Cobalt	0.0096	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:32	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	396	mg/L	10.0	10.0	1		09/16/21 14:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	20.2	mg/L	1.0	0.60	1		09/15/21 11:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 11:32	16984-48-8	
Sulfate	238	mg/L	5.0	2.5	5		09/15/21 21:06	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-23		Lab ID: 92560774009		Collected: 09/09/21 12:15		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:06		
pH	6.00	Std. Units			1		09/13/21 10:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	76.4	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:38	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:38	7440-39-3	
Beryllium	0.00050J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:38	7440-41-7	
Boron	4.7	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:38	7440-42-8	
Cadmium	0.00019J	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:38	7440-47-3	
Cobalt	0.00049J	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:38	7439-92-1	
Lithium	0.0081J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:38	7439-93-2	
Molybdenum	0.010	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00011J	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	455	mg/L	10.0	10.0	1		09/16/21 14:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	12.3	mg/L	1.0	0.60	1		09/15/21 11:47	16887-00-6	M1
Fluoride	0.084J	mg/L	0.10	0.050	1		09/15/21 11:47	16984-48-8	M1
Sulfate	217	mg/L	5.0	2.5	5		09/15/21 21:21	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: EB-1		Lab ID: 92560774010		Collected: 09/09/21 16:40	Received: 09/10/21 17:40	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:44	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:43	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:43	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:43	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:43	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:43	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:43	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:43	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:43	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:43	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:43	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:43	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:43	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:43	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:20	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/16/21 14:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 12:34	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 12:34	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 12:34	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: FB-1		Lab ID: 92560774011		Collected: 09/09/21 13:40	Received: 09/10/21 17:40	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:49	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:49	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:49	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:49	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:49	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:49	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:49	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:49	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:49	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:49	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:49	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:49	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:49	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:49	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:23	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/16/21 14:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 12:49	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 12:49	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 12:49	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-4		Lab ID: 92560774012		Collected: 09/10/21 11:08		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:07		
pH	5.83	Std. Units			1		09/13/21 10:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	285	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:54	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:55	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:55	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:55	7440-41-7	
Boron	5.0	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:55	7440-42-8	
Cadmium	0.00090	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:55	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:55	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:55	7439-93-2	
Molybdenum	0.0052J	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1520	mg/L	50.0	50.0	1		09/16/21 14:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.9	mg/L	1.0	0.60	1		09/15/21 13:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 13:05	16984-48-8	
Sulfate	823	mg/L	18.0	9.0	18		09/15/21 22:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-5		Lab ID: 92560774013		Collected: 09/10/21 14:32		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:07		
pH	4.89	Std. Units			1		09/13/21 10:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	123	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:00	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:00	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:00	7440-39-3	
Beryllium	0.0075	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:00	7440-41-7	
Boron	4.7	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:00	7440-42-8	
Cadmium	0.00093	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:00	7440-47-3	
Cobalt	0.022	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:00	7439-92-1	
Lithium	0.0071J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:00	7439-98-7	
Selenium	0.0099	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00030	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	792	mg/L	20.0	20.0	1		09/16/21 14:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		09/15/21 13:20	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		09/15/21 13:20	16984-48-8	
Sulfate	449	mg/L	10.0	5.0	10		09/15/21 22:22	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DUP-2		Lab ID: 92560774014		Collected: 09/10/21 00:00	Received: 09/10/21 17:40	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	283	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:14	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:06	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:06	7440-38-2		
Barium	0.032	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:06	7440-39-3		
Beryllium	0.00029J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:06	7440-41-7		
Boron	5.2	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:06	7440-42-8		
Cadmium	0.00089	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:06	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:06	7440-47-3		
Cobalt	0.0019J	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:06	7439-92-1		
Lithium	0.0036J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:06	7439-93-2		
Molybdenum	0.0051J	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:06	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.00013J	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:30	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	1490	mg/L	50.0	50.0	1		09/16/21 14:40			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	13.9	mg/L	1.0	0.60	1		09/15/21 13:36	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 13:36	16984-48-8		
Sulfate	829	mg/L	18.0	9.0	18		09/15/21 22:37	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-9 **Lab ID: 92560774015** Collected: 09/10/21 11:32 Received: 09/10/21 17:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/13/21 10:07		
pH	3.98	Std. Units			1		09/13/21 10:07		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	47.7	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:19	7440-70-2	
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6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 17:33	7440-36-0	
Arsenic	0.031	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 17:33	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 17:33	7440-39-3	
Beryllium	0.0049	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 17:33	7440-41-7	
Boron	0.54	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 17:33	7440-42-8	
Cadmium	0.00053	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 17:33	7440-47-3	
Cobalt	0.21	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 17:33	7439-92-1	
Lithium	0.027J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 17:33	7439-98-7	
Selenium	0.057	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 17:33	7782-49-2	
Thallium	0.00040J	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 17:33	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	0.00014J	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:38	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	466	mg/L	10.0	10.0	1		09/17/21 17:32		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	9.0	mg/L	1.0	0.60	1		09/15/21 14:22	16887-00-6	
Fluoride	2.0	mg/L	0.10	0.050	1		09/15/21 14:22	16984-48-8	
Sulfate	264	mg/L	7.0	3.5	7		09/15/21 22:53	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: FB-2		Lab ID: 92560774016		Collected: 09/10/21 11:00		Received: 09/10/21 17:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:23	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:45	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:45	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:45	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:45	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:45	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:45	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:45	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:45	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:45	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:45	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:45	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:45	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:45	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:41	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/17/21 17:32			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 14:38	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 14:38	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 14:38	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-10		Lab ID: 92560774017		Collected: 09/10/21 13:30		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:08		
pH	5.05	Std. Units			1		09/13/21 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	82.4	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:51	7440-36-0	
Arsenic	0.0076	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:51	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:51	7440-39-3	
Beryllium	0.0074	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:51	7440-41-7	
Boron	0.24	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:51	7440-42-8	
Cadmium	0.00061	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:51	7440-47-3	
Cobalt	0.076	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:51	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:51	7439-98-7	
Selenium	0.034	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:51	7782-49-2	
Thallium	0.00027J	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	474	mg/L	10.0	10.0	1		09/17/21 17:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.2	mg/L	1.0	0.60	1		09/15/21 14:53	16887-00-6	
Fluoride	2.2	mg/L	0.10	0.050	1		09/15/21 14:53	16984-48-8	
Sulfate	271	mg/L	6.0	3.0	6		09/15/21 23:39	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-20		Lab ID: 92560774018		Collected: 09/10/21 12:48	Received: 09/10/21 17:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:08		
pH	4.67	Std. Units			1		09/13/21 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	69.8	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:56	7440-36-0	
Arsenic	0.0083	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:56	7440-38-2	
Barium	0.0098	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:56	7440-39-3	
Beryllium	0.0024	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:56	7440-41-7	
Boron	4.8	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:56	7440-42-8	
Cadmium	0.0012	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:56	7440-47-3	
Cobalt	0.45	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:56	7439-92-1	
Lithium	0.0023J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:56	7439-98-7	
Selenium	0.031	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:56	7782-49-2	
Thallium	0.00052J	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	678	mg/L	20.0	20.0	1		09/17/21 17:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	26.2	mg/L	1.0	0.60	1		09/15/21 15:09	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.050	1		09/15/21 15:09	16984-48-8	
Sulfate	399	mg/L	9.0	4.5	9		09/15/21 23:54	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-22		Lab ID: 92560774019		Collected: 09/10/21 12:58		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:08		
pH	5.65	Std. Units			1		09/13/21 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	62.3	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:38	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 14:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 14:02	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 14:02	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 14:02	7440-41-7	
Boron	4.5	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 14:02	7440-42-8	
Cadmium	0.00061	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 14:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 14:02	7440-47-3	
Cobalt	0.0076	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 14:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 14:02	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 14:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 14:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 14:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 14:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00011J	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	468	mg/L	10.0	10.0	1		09/17/21 17:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.3	mg/L	1.0	0.60	1		09/15/21 20:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:47	16984-48-8	
Sulfate	234	mg/L	5.0	2.5	5		09/17/21 10:45	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-47		Lab ID: 92560774020		Collected: 09/10/21 11:00		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:08		
pH	4.10	Std. Units			1		09/13/21 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.4	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:44	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:25	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:25	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:25	7440-39-3	
Beryllium	0.0090	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:25	7440-41-7	
Boron	0.16	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:25	7440-42-8	
Cadmium	0.0014	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:25	7440-47-3	
Cobalt	0.23	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:25	7439-92-1	
Lithium	0.053	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:25	7439-98-7	
Selenium	0.0035J	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:25	7782-49-2	
Thallium	0.00036J	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	274	mg/L	10.0	10.0	1		09/17/21 17:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		09/15/21 21:03	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		09/15/21 21:03	16984-48-8	M1
Sulfate	123	mg/L	2.0	1.0	2		09/17/21 11:01	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-48		Lab ID: 92560774021		Collected: 09/10/21 10:56		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 10:09		
pH	4.30	Std. Units			1		09/13/21 10:09		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.7	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0018J	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:48	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:48	7440-39-3	
Beryllium	0.0070	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:48	7440-41-7	
Boron	0.55	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:48	7440-42-8	
Cadmium	0.0028	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:48	7440-47-3	
Cobalt	0.36	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:48	7440-48-4	
Lead	0.00099J	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:48	7439-92-1	
Lithium	0.095	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:48	7439-98-7	
Selenium	0.0022J	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	532	mg/L	20.0	20.0	1		09/17/21 17:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.9	mg/L	1.0	0.60	1		09/15/21 14:29	16887-00-6	
Fluoride	0.47	mg/L	0.10	0.050	1		09/15/21 14:29	16984-48-8	M1
Sulfate	272	mg/L	6.0	3.0	6		09/15/21 22:10	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DUP-1		Lab ID: 92560774022		Collected: 09/10/21 00:00		Received: 09/10/21 17:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	70.3	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:54	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:53	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:53	7440-38-2		
Barium	0.013	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:53	7440-39-3		
Beryllium	0.0069	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:53	7440-41-7		
Boron	0.54	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:53	7440-42-8		
Cadmium	0.0028	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:53	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:53	7440-47-3		
Cobalt	0.36	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:53	7440-48-4		
Lead	0.0010	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:53	7439-92-1		
Lithium	0.094	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:53	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:53	7439-98-7		
Selenium	0.0024J	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:53	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:53	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:24	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	556	mg/L	10.0	10.0	1		09/17/21 17:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	10.5	mg/L	1.0	0.60	1		09/15/21 15:16	16887-00-6		
Fluoride	0.49	mg/L	0.10	0.050	1		09/15/21 15:16	16984-48-8		
Sulfate	264	mg/L	6.0	3.0	6		09/15/21 23:29	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: EB-2		Lab ID: 92560774023		Collected: 09/10/21 10:35		Received: 09/10/21 17:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:59	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:59	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:59	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:59	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:59	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:59	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:59	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:59	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:59	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:59	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:59	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:59	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:59	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:59	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	20.0	mg/L	10.0	10.0	1		09/17/21 17:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 15:32	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 15:32	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 15:32	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-8		Lab ID: 92560774024		Collected: 09/13/21 11:00		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:25		
pH	5.05	Std. Units			1		09/14/21 11:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	36.0	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:05	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:05	7440-39-3	
Beryllium	0.0015	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:05	7440-41-7	
Boron	0.86	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:05	7440-42-8	
Cadmium	0.0020	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:05	7440-47-3	
Cobalt	0.028	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:05	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:05	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	306	mg/L	10.0	10.0	1		09/20/21 16:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.2	mg/L	1.0	0.60	1		09/15/21 20:51	16887-00-6	
Fluoride	0.069J	mg/L	0.10	0.050	1		09/15/21 20:51	16984-48-8	
Sulfate	145	mg/L	3.0	1.5	3		09/16/21 02:22	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Sample: DGWC-17		Lab ID: 92560774025		Collected: 09/13/21 11:04		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:25		
pH	5.06	Std. Units			1		09/14/21 11:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.8	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:42	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:22	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:22	7440-39-3	
Beryllium	0.00052	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:22	7440-41-7	
Boron	0.78	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:22	7440-42-8	
Cadmium	0.00023J	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:22	7440-43-9	
Chromium	0.0027J	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:22	7440-47-3	
Cobalt	0.019	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:22	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:22	7439-98-7	
Selenium	0.0071	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:22	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000086J	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	424	mg/L	10.0	10.0	1		09/20/21 16:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.2	mg/L	1.0	0.60	1		09/15/21 21:07	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		09/15/21 21:07	16984-48-8	
Sulfate	222	mg/L	5.0	2.5	5		09/16/21 02:38	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Sample: DGWC-42		Lab ID: 92560774026		Collected: 09/13/21 15:00		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:25		
pH	5.15	Std. Units			1		09/14/21 11:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	38.9	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:28	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:28	7440-39-3	
Beryllium	0.0024	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:28	7440-41-7	
Boron	0.95	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:28	7440-42-8	
Cadmium	0.00042J	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:28	7440-47-3	
Cobalt	0.0080	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:28	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:34	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	508	mg/L	20.0	20.0	1		09/20/21 16:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.1	mg/L	1.0	0.60	1		09/15/21 21:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 21:23	16984-48-8	
Sulfate	285	mg/L	6.0	3.0	6		09/16/21 02:53	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	648325	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019		

METHOD BLANK:	3400203	Matrix:	Water
Associated Lab Samples:	92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/20/21 17:23	

LABORATORY CONTROL SAMPLE:	3400204					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3400205			3400206								
Parameter	Units	92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	42.0	1	1	44.1	42.4	202	31	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	648974	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3403796 Matrix: Water
Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/23/21 17:54	

LABORATORY CONTROL SAMPLE: 3403797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3403798 3403799

Parameter	Units	3403798		3403799		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	42.1	1	1	41.6	40.7	-42	-139	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

QC Batch: 648326 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019

METHOD BLANK: 3400210 Matrix: Water
Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 11:04	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 11:04	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 11:04	
Boron	mg/L	ND	0.040	0.0086	09/22/21 11:04	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 11:04	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 11:04	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 11:04	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 11:04	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 11:04	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 11:04	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 11:04	

LABORATORY CONTROL SAMPLE: 3400211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Parameter	Units	3400212		3400213		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	3	20		
Barium	mg/L	0.022	0.1	0.1	0.13	0.13	104	103	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		
Boron	mg/L	0.51	1	1	1.6	1.6	110	109	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Cobalt	mg/L	0.0048J	0.1	0.1	0.11	0.11	101	102	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20		
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.12	99	99	75-125	0	20		
Molybdenum	mg/L	0.0023J	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Selenium	mg/L	0.0031J	0.1	0.1	0.11	0.11	104	106	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

QC Batch: 648523 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3401252 Matrix: Water
Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 18:13	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 18:13	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 18:13	
Boron	mg/L	ND	0.040	0.0086	09/22/21 18:13	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 18:13	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 18:13	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 18:13	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 18:13	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 18:13	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 18:13	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 18:13	

LABORATORY CONTROL SAMPLE: 3401253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	109	80-120	
Cobalt	mg/L	0.1	0.11	108	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3401254 3401255

Parameter	Units	92560774020 Result	MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	108	107	75-125	1	20	
Arsenic	mg/L	0.0016J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Parameter	Units	3401254		3401255		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.021	0.1	0.1	0.13	0.13	113	113	75-125	0	20		
Beryllium	mg/L	0.0090	0.1	0.1	0.10	0.10	92	94	75-125	2	20		
Boron	mg/L	0.16	1	1	1.2	1.2	99	102	75-125	3	20		
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.10	101	100	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		
Cobalt	mg/L	0.23	0.1	0.1	0.34	0.32	107	94	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lithium	mg/L	0.053	0.1	0.1	0.15	0.14	95	90	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Selenium	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	97	75-125	2	20		
Thallium	mg/L	0.00036J	0.1	0.1	0.097	0.097	97	96	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

QC Batch:	649458	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016

METHOD BLANK: 3406292 Matrix: Water
Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 15:32	

LABORATORY CONTROL SAMPLE: 3406293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406294 3406295

Parameter	Units	3406294		3406295		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0027	0.0027	108	105	75-125	3	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	649459	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3406298 Matrix: Water

Associated Lab Samples: 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 16:51	

LABORATORY CONTROL SAMPLE: 3406299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406300 3406301

Parameter	Units	92560774017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0026	100	103	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	647701	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014

METHOD BLANK: 3397222 Matrix: Water

Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/16/21 14:33	

LABORATORY CONTROL SAMPLE: 3397223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3397224

Parameter	Units	92560774001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	251	4	10	

SAMPLE DUPLICATE: 3397225

Parameter	Units	92560774011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 647940

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774015, 92560774016, 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023

METHOD BLANK: 3398525

Matrix: Water

Associated Lab Samples: 92560774015, 92560774016, 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/17/21 17:32	

LABORATORY CONTROL SAMPLE: 3398526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3400012

Parameter	Units	92560858001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	62.0	52.0	18	10	D6

SAMPLE DUPLICATE: 3400013

Parameter	Units	92560961003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	122	3	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 648323	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774024, 92560774025, 92560774026

METHOD BLANK: 3400167 Matrix: Water

Associated Lab Samples: 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/21 16:33	

LABORATORY CONTROL SAMPLE: 3400168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3400169

Parameter	Units	92560963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	127	9	10	

SAMPLE DUPLICATE: 3400170

Parameter	Units	92560768008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	295	0	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

QC Batch: 647165 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018

METHOD BLANK: 3394756 Matrix: Water
Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 07:09	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 07:09	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 07:09	

LABORATORY CONTROL SAMPLE: 3394757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394758 3394759

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768003 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	4.8	50	50	63.0	64.6	116	120	90-110	3	10 M1
Fluoride	mg/L	0.15	2.5	2.5	3.1	3.1	117	119	90-110	2	10 M1
Sulfate	mg/L	93.2	50	50	136	137	86	87	90-110	0	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394760 3394761

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774009 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	12.3	50	50	70.2	71.8	116	119	90-110	2	10 M1
Fluoride	mg/L	0.084J	2.5	2.5	3.1	3.2	121	125	90-110	3	10 M1
Sulfate	mg/L	217	50	50	266	268	99	101	90-110	0	10

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 647236	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560774019, 92560774020

METHOD BLANK: 3394945 Matrix: Water

Associated Lab Samples: 92560774019, 92560774020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 12:17	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 12:17	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 12:17	

LABORATORY CONTROL SAMPLE: 3394946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.3	99	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394947 3394948

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560964004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.2	50	50	54.7	55.8	103	105	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	101	90-110	2	10		
Sulfate	mg/L	10.0	50	50	61.5	62.8	103	106	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394949 3394950

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774020	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.4	50	50	54.5	55.3	104	106	90-110	1	10		
Fluoride	mg/L	0.22	2.5	2.5	2.2	2.3	79	81	90-110	3	10 M1		
Sulfate	mg/L	123	50	50	175	169	104	92	90-110	3	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

QC Batch: 647237 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3394951 Matrix: Water
Associated Lab Samples: 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 13:41	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 13:41	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 13:41	

LABORATORY CONTROL SAMPLE: 3394952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394953 3394954

Parameter	Units	92560774021		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	10.9	50	50	62.5	63.0	103	104	90-110	1	10		
Fluoride	mg/L	0.47	2.5	2.5	3.3	3.3	112	112	90-110	0	10	M1	
Sulfate	mg/L	272	50	50	315	313	87	82	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394955 3394956

Parameter	Units	92560768007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	8.7	50	50	59.6	60.9	102	104	90-110	2	10		
Fluoride	mg/L	0.051J	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	174	50	50	217	219	88	91	90-110	1	10	M1	

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QUALIFIERS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774001	DGWC-2				
92560774002	DGWC-11				
92560774003	DGWC-12				
92560774004	DGWC-13				
92560774005	DGWC-14				
92560774006	DGWC-15				
92560774007	DGWC-19				
92560774008	DGWC-21				
92560774009	DGWC-23				
92560774012	DGWC-4				
92560774013	DGWC-5				
92560774015	DGWC-9				
92560774017	DGWC-10				
92560774018	DGWC-20				
92560774019	DGWC-22				
92560774020	DGWC-47				
92560774021	DGWC-48				
92560774024	DGWC-8				
92560774025	DGWC-17				
92560774026	DGWC-42				
92560774001	DGWC-2	EPA 3010A	648325	EPA 6010D	648333
92560774002	DGWC-11	EPA 3010A	648325	EPA 6010D	648333
92560774003	DGWC-12	EPA 3010A	648325	EPA 6010D	648333
92560774004	DGWC-13	EPA 3010A	648325	EPA 6010D	648333
92560774005	DGWC-14	EPA 3010A	648325	EPA 6010D	648333
92560774006	DGWC-15	EPA 3010A	648325	EPA 6010D	648333
92560774007	DGWC-19	EPA 3010A	648325	EPA 6010D	648333
92560774008	DGWC-21	EPA 3010A	648325	EPA 6010D	648333
92560774009	DGWC-23	EPA 3010A	648325	EPA 6010D	648333
92560774010	EB-1	EPA 3010A	648325	EPA 6010D	648333
92560774011	FB-1	EPA 3010A	648325	EPA 6010D	648333
92560774012	DGWC-4	EPA 3010A	648325	EPA 6010D	648333
92560774013	DGWC-5	EPA 3010A	648325	EPA 6010D	648333
92560774014	DUP-2	EPA 3010A	648325	EPA 6010D	648333
92560774015	DGWC-9	EPA 3010A	648325	EPA 6010D	648333
92560774016	FB-2	EPA 3010A	648325	EPA 6010D	648333
92560774017	DGWC-10	EPA 3010A	648325	EPA 6010D	648333
92560774018	DGWC-20	EPA 3010A	648325	EPA 6010D	648333
92560774019	DGWC-22	EPA 3010A	648325	EPA 6010D	648333
92560774020	DGWC-47	EPA 3010A	648974	EPA 6010D	649029
92560774021	DGWC-48	EPA 3010A	648974	EPA 6010D	649029
92560774022	DUP-1	EPA 3010A	648974	EPA 6010D	649029
92560774023	EB-2	EPA 3010A	648974	EPA 6010D	649029
92560774024	DGWC-8	EPA 3010A	648974	EPA 6010D	649029
92560774025	DGWC-17	EPA 3010A	648974	EPA 6010D	649029
92560774026	DGWC-42	EPA 3010A	648974	EPA 6010D	649029
92560774001	DGWC-2	EPA 3005A	648326	EPA 6020B	648331

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4
Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774002	DGWC-11	EPA 3005A	648326	EPA 6020B	648331
92560774003	DGWC-12	EPA 3005A	648326	EPA 6020B	648331
92560774004	DGWC-13	EPA 3005A	648326	EPA 6020B	648331
92560774005	DGWC-14	EPA 3005A	648326	EPA 6020B	648331
92560774006	DGWC-15	EPA 3005A	648326	EPA 6020B	648331
92560774007	DGWC-19	EPA 3005A	648326	EPA 6020B	648331
92560774008	DGWC-21	EPA 3005A	648326	EPA 6020B	648331
92560774009	DGWC-23	EPA 3005A	648326	EPA 6020B	648331
92560774010	EB-1	EPA 3005A	648326	EPA 6020B	648331
92560774011	FB-1	EPA 3005A	648326	EPA 6020B	648331
92560774012	DGWC-4	EPA 3005A	648326	EPA 6020B	648331
92560774013	DGWC-5	EPA 3005A	648326	EPA 6020B	648331
92560774014	DUP-2	EPA 3005A	648326	EPA 6020B	648331
92560774015	DGWC-9	EPA 3005A	648326	EPA 6020B	648331
92560774016	FB-2	EPA 3005A	648326	EPA 6020B	648331
92560774017	DGWC-10	EPA 3005A	648326	EPA 6020B	648331
92560774018	DGWC-20	EPA 3005A	648326	EPA 6020B	648331
92560774019	DGWC-22	EPA 3005A	648326	EPA 6020B	648331
92560774020	DGWC-47	EPA 3005A	648523	EPA 6020B	648596
92560774021	DGWC-48	EPA 3005A	648523	EPA 6020B	648596
92560774022	DUP-1	EPA 3005A	648523	EPA 6020B	648596
92560774023	EB-2	EPA 3005A	648523	EPA 6020B	648596
92560774024	DGWC-8	EPA 3005A	648523	EPA 6020B	648596
92560774025	DGWC-17	EPA 3005A	648523	EPA 6020B	648596
92560774026	DGWC-42	EPA 3005A	648523	EPA 6020B	648596
92560774001	DGWC-2	EPA 7470A	649458	EPA 7470A	649537
92560774002	DGWC-11	EPA 7470A	649458	EPA 7470A	649537
92560774003	DGWC-12	EPA 7470A	649458	EPA 7470A	649537
92560774004	DGWC-13	EPA 7470A	649458	EPA 7470A	649537
92560774005	DGWC-14	EPA 7470A	649458	EPA 7470A	649537
92560774006	DGWC-15	EPA 7470A	649458	EPA 7470A	649537
92560774007	DGWC-19	EPA 7470A	649458	EPA 7470A	649537
92560774008	DGWC-21	EPA 7470A	649458	EPA 7470A	649537
92560774009	DGWC-23	EPA 7470A	649458	EPA 7470A	649537
92560774010	EB-1	EPA 7470A	649458	EPA 7470A	649537
92560774011	FB-1	EPA 7470A	649458	EPA 7470A	649537
92560774012	DGWC-4	EPA 7470A	649458	EPA 7470A	649537
92560774013	DGWC-5	EPA 7470A	649458	EPA 7470A	649537
92560774014	DUP-2	EPA 7470A	649458	EPA 7470A	649537
92560774015	DGWC-9	EPA 7470A	649458	EPA 7470A	649537
92560774016	FB-2	EPA 7470A	649458	EPA 7470A	649537
92560774017	DGWC-10	EPA 7470A	649459	EPA 7470A	649538
92560774018	DGWC-20	EPA 7470A	649459	EPA 7470A	649538
92560774019	DGWC-22	EPA 7470A	649459	EPA 7470A	649538
92560774020	DGWC-47	EPA 7470A	649459	EPA 7470A	649538
92560774021	DGWC-48	EPA 7470A	649459	EPA 7470A	649538
92560774022	DUP-1	EPA 7470A	649459	EPA 7470A	649538

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774023	EB-2	EPA 7470A	649459	EPA 7470A	649538
92560774024	DGWC-8	EPA 7470A	649459	EPA 7470A	649538
92560774025	DGWC-17	EPA 7470A	649459	EPA 7470A	649538
92560774026	DGWC-42	EPA 7470A	649459	EPA 7470A	649538
92560774001	DGWC-2	SM 2540C-2011	647701		
92560774002	DGWC-11	SM 2540C-2011	647701		
92560774003	DGWC-12	SM 2540C-2011	647701		
92560774004	DGWC-13	SM 2540C-2011	647701		
92560774005	DGWC-14	SM 2540C-2011	647701		
92560774006	DGWC-15	SM 2540C-2011	647701		
92560774007	DGWC-19	SM 2540C-2011	647701		
92560774008	DGWC-21	SM 2540C-2011	647701		
92560774009	DGWC-23	SM 2540C-2011	647701		
92560774010	EB-1	SM 2540C-2011	647701		
92560774011	FB-1	SM 2540C-2011	647701		
92560774012	DGWC-4	SM 2540C-2011	647701		
92560774013	DGWC-5	SM 2540C-2011	647701		
92560774014	DUP-2	SM 2540C-2011	647701		
92560774015	DGWC-9	SM 2540C-2011	647940		
92560774016	FB-2	SM 2540C-2011	647940		
92560774017	DGWC-10	SM 2540C-2011	647940		
92560774018	DGWC-20	SM 2540C-2011	647940		
92560774019	DGWC-22	SM 2540C-2011	647940		
92560774020	DGWC-47	SM 2540C-2011	647940		
92560774021	DGWC-48	SM 2540C-2011	647940		
92560774022	DUP-1	SM 2540C-2011	647940		
92560774023	EB-2	SM 2540C-2011	647940		
92560774024	DGWC-8	SM 2540C-2011	648323		
92560774025	DGWC-17	SM 2540C-2011	648323		
92560774026	DGWC-42	SM 2540C-2011	648323		
92560774001	DGWC-2	EPA 300.0 Rev 2.1 1993	647165		
92560774002	DGWC-11	EPA 300.0 Rev 2.1 1993	647165		
92560774003	DGWC-12	EPA 300.0 Rev 2.1 1993	647165		
92560774004	DGWC-13	EPA 300.0 Rev 2.1 1993	647165		
92560774005	DGWC-14	EPA 300.0 Rev 2.1 1993	647165		
92560774006	DGWC-15	EPA 300.0 Rev 2.1 1993	647165		
92560774007	DGWC-19	EPA 300.0 Rev 2.1 1993	647165		
92560774008	DGWC-21	EPA 300.0 Rev 2.1 1993	647165		
92560774009	DGWC-23	EPA 300.0 Rev 2.1 1993	647165		
92560774010	EB-1	EPA 300.0 Rev 2.1 1993	647165		
92560774011	FB-1	EPA 300.0 Rev 2.1 1993	647165		
92560774012	DGWC-4	EPA 300.0 Rev 2.1 1993	647165		
92560774013	DGWC-5	EPA 300.0 Rev 2.1 1993	647165		
92560774014	DUP-2	EPA 300.0 Rev 2.1 1993	647165		
92560774015	DGWC-9	EPA 300.0 Rev 2.1 1993	647165		
92560774016	FB-2	EPA 300.0 Rev 2.1 1993	647165		
92560774017	DGWC-10	EPA 300.0 Rev 2.1 1993	647165		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

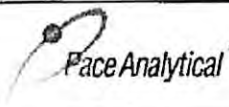
Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774018	DGWC-20	EPA 300.0 Rev 2.1 1993	647165		
92560774019	DGWC-22	EPA 300.0 Rev 2.1 1993	647236		
92560774020	DGWC-47	EPA 300.0 Rev 2.1 1993	647236		
92560774021	DGWC-48	EPA 300.0 Rev 2.1 1993	647237		
92560774022	DUP-1	EPA 300.0 Rev 2.1 1993	647237		
92560774023	EB-2	EPA 300.0 Rev 2.1 1993	647237		
92560774024	DGWC-8	EPA 300.0 Rev 2.1 1993	647237		
92560774025	DGWC-17	EPA 300.0 Rev 2.1 1993	647237		
92560774026	DGWC-42	EPA 300.0 Rev 2.1 1993	647237		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92560774



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 9/18/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: *230*

Type of Ice:

Wet Blue None

Cooler Temp:

3.4

Correction Factor:

± 0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *3.5*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project #

WO# : 92560774

PM: NMG

Due Date: 09/24/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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pH Adjustment Log for Preserved Samples

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

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project #

WO# : 92560774

PM: NMG

Due Date: 09/24/21

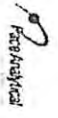
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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12																													

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A		Section B		Section C		Section D	
Client Information:	Report To: Jon Abraham	Invoice Information:	Attention: Jacqueline Gaultier	Requested Agency:	GA	Regulatory Agency:	
Address: 2480 Manor Road	Copy To: Golder	Project Information:	Address: 1000 Peachtree St NE	Company Name: Pace Quade		State/Location:	
Atlanta, GA 30339		Purchase Order #		Address:			
labrain@seoutherno.com		Plant Method: AP-2, 3/4		Pace Project Manager: Kevin Herring			
(404) 586-7238		Project # 169948616		Pace Profile #:			
10 Day TAT							

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

SAMPLE ID	MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						ANALYSES TEST			Residual Chlorine (Y/N)	pH
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV Total Metals		
DGWC-2	...	9/9/2021	13:10		5	2	3									pH = 6.00
DGWC-11	...	9/9/2021	9:55		7	2	5									pH = 5.59
DGWC-12	...	9/9/2021	14:25		5	2	3									pH = 6.07
DGWC-13	...	9/9/2021	15:10		5	2	3									pH = 5.69
DGWC-14	...	9/9/2021	15:50		5	2	3									pH = 5.70
DGWC-15	...	9/9/2021	13:48		5	2	3									pH = 5.63
DGWC-19	...	9/9/2021	13:48		5	2	3									pH = 4.82
DGWC-21	...	9/9/2021	12:43		5	2	3									pH = 5.73
DGWC-23	...	9/9/2021	12:15		5	2	3									pH = 5.00
EB-1	...	9/9/2021	16:40		5	2	3									pH = NA
FB-1	...	9/9/2021	13:40		5	2	3									pH = NA
DGWC-4	...	9/10/2021	11:08		5	2	3									pH = 5.83
DGWC-5	...	9/10/2021	14:32		5	2	3									pH = 4.89
DUP-2	...	9/10/2021	-		5	2	3									pH = NA
DGWC-9	...	9/10/2021	11:32		5	2	3									pH = 3.96

REQUISITIONED BY: JWB
 REQUISITIONED BY AFFILIATION: JWB
 DATE: 9/10/21
 TIME: 17:10
 ACCEPTED BY: Charles
 ACCEPTED BY AFFILIATION: Charles
 DATE: 9/10/21
 TIME: 19:40

DATE Signed: 9/10/21
 JWB MAGUESPARK
 Received on ice (Y/N) Y
 Custody Sealed Cooler (Y/N) Y
 Samples Intact (Y/N) Y

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Client Information: Name: Georgia Power - Coal Combustion Residuals Address: 2480 Maner Road Atlanta, GA 30339 Email: jebraham@southemco.com Phone: (404) 506-7239 Contacted Date: 10 Day TAT	Section B Required Project Information: Report To: Juv Abraham Report Title: Colder Copy To: Purchase Order #: Plant MCDeroou.ph AP-2-314 Project Name: Invoice Information: Attention: rcsinvoicess@southemco.com Company Name: Address: Site / Location: GA Regulatory Agency:
---	---

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	# OF CONTAINERS	Preservatives							Analyses Test				Residual Chlorine (Y/N)	SAMPLE CONDITIONS
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228		
1	FB-2	G	9/10/2021	11:00	5	2	3							X	X	X	pH = NA	
2	DGWC-10	G	9/10/2021	13:30	7	2	5							X	X	X	pH = 5.05	
3	DGWC-20	G	9/10/2021	12:48	5	2	3							X	X	X	pH = 4.67	
4	DGWC-22	G	9/10/2021	12:58	5	2	3							X	X	X	pH = 5.55	
5	DGWC-47	G	9/10/2021	11:00	5	2	3							X	X	X	pH = 4.10	
6	DGWC-48	G	9/10/2021	10:56	5	2	3							X	X	X	pH = 4.30	
7	DUP_1	G	9/10/2021	-	5	2	3							X	X	X	pH = NA	
8	EG-2	G	9/10/2021	10:35	5	2	3							X	X	X	pH = NA	
9																		
10																		
11																		
12																		
13																		
14																		

RETRIEVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
ADDITIONAL COMMENTS					
Retrieved by: <u>Juv Abraham</u> / 9/10/21 14:00 Accepted by: <u>Charles Heath</u> / 9/10/21 13:58					

TEMP in C


Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Date Signed: 9/10/21

Site: Wagespack

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: GA POWER	Project #:
-------------------------------	---------------------------------	------------

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: **9/14/21 KAD**

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: **THR214** Type of Ice: Wet Blue None

Cooler Temp: **1.9** Correction Factor: Add/Subtract (°C) **-0.1**

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): **1.8**

USDA Regulated Soil N/A, water sample? Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

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

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

--

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP9T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

BPIN
 P.P.P.P.

pH Adjustment Log for Preserved Samples

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

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

Boyer

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information: Company: Strategic Power - Coal Combustion Products Address: 2400 Lamar Road Atlanta, GA 30338 Email: jboyer@strategicpower.com Phone: (404) 596-7298 Fax: _____ Requested Due Date: 10/07/11	Section B Required Project Information: Report To: Jai Anubhai Copy To: Golder Purchase Order #: _____ Project Name: Paul McDonough AP-2-14 Project #: 18894821 Pre-Order #: _____
Section C Invoicing Information: Address: email: jboyer@strategicpower.com Company Name: _____ Project Name: _____ Post Project Manager: Keith Henning Pre-Order #: _____	Regulatory Agency: _____ State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9) Samples are never to be unique	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test				Residual Chlorine (Y/N)	PH
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App II/IV Total Metals	CL F, SO4, TDS	Radon 226/228		
1	DSWC-8	10/07/11	11:00		3												PH = 5.05	
2	DSWC-17	10/07/11	11:04		5												PH = 5.09	
3	DSWC-42	10/07/11	15:00		5												PH = 5.15	
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

RELEASING BY: *Jai Anubhai* DATE: *9-14-11* TIME: *08:46*
 ACCEPTED BY: *Keith Henning* DATE: *9-14-11* TIME: *15:00*
 SAMPLE CONDITION: *1.8*
 TEMP in C: _____
 Received on ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____
 DATE signed: *9-14-11*

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560766001	DGWC-2	Water	09/09/21 13:10	09/10/21 17:40
92560766002	DGWC-11	Water	09/09/21 09:55	09/10/21 17:40
92560766003	DGWC-12	Water	09/09/21 14:25	09/10/21 17:40
92560766004	DGWC-13	Water	09/09/21 15:10	09/10/21 17:40
92560766005	DGWC-14	Water	09/09/21 15:50	09/10/21 17:40
92560766006	DGWC-15	Water	09/09/21 13:49	09/10/21 17:40
92560766007	DGWC-19	Water	09/09/21 15:48	09/10/21 17:40
92560766008	DGWC-21	Water	09/09/21 12:43	09/10/21 17:40
92560766009	DGWC-23	Water	09/09/21 12:15	09/10/21 17:40
92560766010	EB-1	Water	09/09/21 16:40	09/10/21 17:40
92560766011	FB-1	Water	09/09/21 13:40	09/10/21 17:40
92560766012	DGWC-4	Water	09/10/21 11:08	09/10/21 17:40
92560766013	DGWC-5	Water	09/10/21 14:32	09/10/21 17:40
92560766014	DUP-2	Water	09/10/21 00:00	09/10/21 17:40
92560766015	DGWC-9	Water	09/10/21 11:32	09/10/21 17:40
92560766016	FB-2	Water	09/10/21 11:00	09/10/21 17:40
92560766017	DGWC-10	Water	09/10/21 13:30	09/10/21 17:40
92560766018	DGWC-20	Water	09/10/21 12:46	09/10/21 17:40
92560766019	DGWC-22	Water	09/10/21 12:58	09/10/21 17:40
92560766020	DGWC-47	Water	09/10/21 11:00	09/10/21 17:40
92560766021	DGWC-48	Water	09/10/21 10:56	09/10/21 17:40
92560766022	DUP-1	Water	09/10/21 00:00	09/10/21 17:40
92560766023	EB-2	Water	09/10/21 10:35	09/10/21 17:40
92560766024	DGWC-8	Water	09/13/21 11:00	09/14/21 09:35
92560766025	DGWC-17	Water	09/13/21 11:04	09/14/21 09:35
92560766026	DGWC-42	Water	09/13/21 15:00	09/14/21 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560766001	DGWC-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766002	DGWC-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766003	DGWC-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766004	DGWC-13	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766005	DGWC-14	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766006	DGWC-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766007	DGWC-19	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766008	DGWC-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766009	DGWC-23	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766010	EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766011	FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766012	DGWC-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766013	DGWC-5	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560766014	DUP-2	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92560766015	DGWC-9	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766016	FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766017	DGWC-10	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92560766018	DGWC-20	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766019	DGWC-22	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766020	DGWC-47	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92560766021	DGWC-48	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766022	DUP-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766023	EB-2	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92560766024	DGWC-8	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766025	DGWC-17	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560766026	DGWC-42	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-2 **Lab ID: 92560766001** Collected: 09/09/21 13:10 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.400 ± 0.296 (0.524) C:73% T:NA	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.815 ± 0.452 (0.821) C:70% T:82%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.22 ± 0.748 (1.35)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-11 **Lab ID: 92560766002** Collected: 09/09/21 09:55 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.416 ± 0.235 (0.313) C:91% T:NA	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.782 ± 0.472 (0.892) C:66% T:91%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.707 (1.21)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-12 **Lab ID: 92560766003** Collected: 09/09/21 14:25 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.230 ± 0.216 (0.415) C:91% T:NA	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.55 ± 0.571 (0.868) C:70% T:86%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.78 ± 0.787 (1.28)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-13 **Lab ID: 92560766004** Collected: 09/09/21 15:10 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.361 ± 0.289 (0.546) C:86% T:NA	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.870 ± 0.436 (0.763) C:70% T:89%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.725 (1.31)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-14 **Lab ID: 92560766005** Collected: 09/09/21 15:50 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.502 ± 0.282 (0.433) C:90% T:NA	pCi/L	10/06/21 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.141 ± 0.358 (0.800) C:69% T:80%	pCi/L	09/30/21 11:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.643 ± 0.640 (1.23)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-15 **Lab ID: 92560766006** Collected: 09/09/21 13:49 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.259 ± 0.229 (0.432) C:86% T:NA	pCi/L	10/06/21 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.365 ± 0.345 (0.702) C:68% T:89%	pCi/L	09/30/21 11:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.624 ± 0.574 (1.13)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-19 **Lab ID: 92560766007** Collected: 09/09/21 15:48 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.126 ± 0.212 (0.477) C:92% T:NA	pCi/L	10/06/21 08:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.113 ± 0.315 (0.708) C:70% T:84%	pCi/L	09/30/21 11:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.239 ± 0.527 (1.19)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-21 **Lab ID: 92560766008** Collected: 09/09/21 12:43 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.148 ± 0.169 (0.334) C:91% T:NA	pCi/L	10/06/21 08:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.554 ± 0.407 (0.793) C:68% T:83%	pCi/L	09/30/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.702 ± 0.576 (1.13)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-23 **Lab ID: 92560766009** Collected: 09/09/21 12:15 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.903 ± 0.358 (0.407) C:84% T:NA	pCi/L	10/06/21 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.903 ± 0.478 (0.862) C:69% T:87%	pCi/L	09/30/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.81 ± 0.836 (1.27)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: EB-1 **Lab ID: 92560766010** Collected: 09/09/21 16:40 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.526 ± 0.309 (0.467) C:70% T:NA	pCi/L	10/06/21 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.468 ± 0.381 (0.756) C:70% T:87%	pCi/L	09/30/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.994 ± 0.690 (1.22)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: FB-1 **Lab ID: 92560766011** Collected: 09/09/21 13:40 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.138 ± 0.176 (0.365) C:98% T:NA	pCi/L	10/06/21 08:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.488 ± 0.395 (0.787) C:67% T:90%	pCi/L	10/04/21 12:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.626 ± 0.571 (1.15)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-4 **Lab ID: 92560766012** Collected: 09/10/21 11:08 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.266 ± 0.236 (0.452) C:89% T:NA	pCi/L	10/06/21 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.19 ± 0.531 (0.896) C:67% T:86%	pCi/L	10/04/21 12:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.46 ± 0.767 (1.35)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-5 **Lab ID: 92560766013** Collected: 09/10/21 14:32 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.121 ± 0.167 (0.359) C:100% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.455 (0.743) C:69% T:87%	pCi/L	10/04/21 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.622 (1.10)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DUP-2 **Lab ID: 92560766014** Collected: 09/10/21 00:00 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.623 ± 0.329 (0.538) C:98% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.732 ± 0.416 (0.752) C:67% T:88%	pCi/L	10/04/21 12:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.36 ± 0.745 (1.29)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-9 **Lab ID: 92560766015** Collected: 09/10/21 11:32 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.252 ± 0.208 (0.378) C:102% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.429 (0.667) C:69% T:88%	pCi/L	10/04/21 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 0.637 (1.05)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: FB-2 **Lab ID: 92560766016** Collected: 09/10/21 11:00 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.114 ± 0.261 (0.608) C:100% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.418 ± 0.379 (0.768) C:64% T:91%	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.532 ± 0.640 (1.38)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-10 **Lab ID: 92560766017** Collected: 09/10/21 13:30 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.383 ± 0.234 (0.356) C:97% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.499 ± 0.382 (0.748) C:69% T:87%	pCi/L	10/04/21 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.882 ± 0.616 (1.10)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-20 **Lab ID: 92560766018** Collected: 09/10/21 12:46 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0670 ± 0.173 (0.415) C:100% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.622 ± 0.401 (0.762) C:69% T:92%	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.689 ± 0.574 (1.18)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-22 **Lab ID: 92560766019** Collected: 09/10/21 12:58 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0544 ± 0.175 (0.429) C:98% T:NA	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.562 ± 0.377 (0.709) C:72% T:79%	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.616 ± 0.552 (1.14)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-47 Lab ID: 92560766020 Collected: 09/10/21 11:00 Received: 09/10/21 17:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.479 ± 0.271 (0.409) C:92% T:NA	pCi/L	10/06/21 08:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.84 ± 0.600 (0.792) C:68% T:85%	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.32 ± 0.871 (1.20)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-48 **Lab ID: 92560766021** Collected: 09/10/21 10:56 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.387 ± 0.218 (0.281) C:97% T:NA	pCi/L	10/06/21 08:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.82 ± 0.659 (0.967) C:64% T:79%	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.21 ± 0.877 (1.25)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DUP-1 **Lab ID: 92560766022** Collected: 09/10/21 00:00 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.294 ± 0.224 (0.399) C:99% T:NA	pCi/L	10/06/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.41 ± 0.518 (0.754) C:65% T:93%	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.70 ± 0.742 (1.15)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: EB-2 **Lab ID: 92560766023** Collected: 09/10/21 10:35 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.159 ± 0.181 (0.368) C:99% T:NA	pCi/L	10/06/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.409 ± 0.333 (0.655) C:67% T:94%	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.568 ± 0.514 (1.02)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-8 **Lab ID: 92560766024** Collected: 09/13/21 11:00 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0716 ± 0.187 (0.547) C:77% T:NA	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.916 ± 0.433 (0.749) C:75% T:94%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.916 ± 0.620 (1.30)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-17 Lab ID: 92560766025 Collected: 09/13/21 11:04 Received: 09/14/21 09:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.171 ± 0.263 (0.586) C:95% T:NA	pCi/L	10/06/21 08:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.679 ± 0.413 (0.777) C:74% T:88%	pCi/L	09/30/21 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.850 ± 0.676 (1.36)	pCi/L	10/06/21 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Sample: DGWC-42 **Lab ID: 92560766026** Collected: 09/13/21 15:00 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.128 ± 0.225 (0.510) C:85% T:NA	pCi/L	10/06/21 08:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.02 ± 0.465 (0.775) C:67% T:88%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.690 (1.29)	pCi/L	10/06/21 15:27	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

QC Batch:	465341	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007, 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026		

METHOD BLANK:	2247067	Matrix:	Water
Associated Lab Samples:	92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007, 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.554 ± 0.366 (0.696) C:72% T:88%	pCi/L	09/30/21 11:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

QC Batch: 465342

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007, 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026

METHOD BLANK: 2247068

Matrix: Water

Associated Lab Samples: 92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007, 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.189 ± 0.181 (0.337) C:97% T:NA	pCi/L	10/06/21 08:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

QC Batch:	465344	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

METHOD BLANK: 2247072 Matrix: Water

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560766001	DGWC-2	EPA 9315	465342		
92560766002	DGWC-11	EPA 9315	465342		
92560766003	DGWC-12	EPA 9315	465342		
92560766004	DGWC-13	EPA 9315	465342		
92560766005	DGWC-14	EPA 9315	465342		
92560766006	DGWC-15	EPA 9315	465342		
92560766007	DGWC-19	EPA 9315	465342		
92560766008	DGWC-21	EPA 9315	465342		
92560766009	DGWC-23	EPA 9315	465342		
92560766010	EB-1	EPA 9315	465342		
92560766011	FB-1	EPA 9315	465344		
92560766012	DGWC-4	EPA 9315	465344		
92560766013	DGWC-5	EPA 9315	465344		
92560766014	DUP-2	EPA 9315	465344		
92560766015	DGWC-9	EPA 9315	465344		
92560766016	FB-2	EPA 9315	465344		
92560766017	DGWC-10	EPA 9315	465344		
92560766018	DGWC-20	EPA 9315	465344		
92560766019	DGWC-22	EPA 9315	465344		
92560766020	DGWC-47	EPA 9315	465344		
92560766021	DGWC-48	EPA 9315	465344		
92560766022	DUP-1	EPA 9315	465344		
92560766023	EB-2	EPA 9315	465344		
92560766024	DGWC-8	EPA 9315	465342		
92560766025	DGWC-17	EPA 9315	465342		
92560766026	DGWC-42	EPA 9315	465342		
92560766001	DGWC-2	EPA 9320	465341		
92560766002	DGWC-11	EPA 9320	465341		
92560766003	DGWC-12	EPA 9320	465341		
92560766004	DGWC-13	EPA 9320	465341		
92560766005	DGWC-14	EPA 9320	465341		
92560766006	DGWC-15	EPA 9320	465341		
92560766007	DGWC-19	EPA 9320	465341		
92560766008	DGWC-21	EPA 9320	465341		
92560766009	DGWC-23	EPA 9320	465341		
92560766010	EB-1	EPA 9320	465341		
92560766011	FB-1	EPA 9320	465343		
92560766012	DGWC-4	EPA 9320	465343		
92560766013	DGWC-5	EPA 9320	465343		
92560766014	DUP-2	EPA 9320	465343		
92560766015	DGWC-9	EPA 9320	465343		
92560766016	FB-2	EPA 9320	465343		
92560766017	DGWC-10	EPA 9320	465343		
92560766018	DGWC-20	EPA 9320	465343		
92560766019	DGWC-22	EPA 9320	465343		
92560766020	DGWC-47	EPA 9320	465343		
92560766021	DGWC-48	EPA 9320	465343		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 RADS
Pace Project No.: 92560766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560766022	DUP-1	EPA 9320	465343		
92560766023	EB-2	EPA 9320	465343		
92560766024	DGWC-8	EPA 9320	465341		
92560766025	DGWC-17	EPA 9320	465341		
92560766026	DGWC-42	EPA 9320	465341		
92560766001	DGWC-2	Total Radium Calculation	467010		
92560766002	DGWC-11	Total Radium Calculation	467010		
92560766003	DGWC-12	Total Radium Calculation	467010		
92560766004	DGWC-13	Total Radium Calculation	467010		
92560766005	DGWC-14	Total Radium Calculation	467010		
92560766006	DGWC-15	Total Radium Calculation	467010		
92560766007	DGWC-19	Total Radium Calculation	467010		
92560766008	DGWC-21	Total Radium Calculation	467010		
92560766009	DGWC-23	Total Radium Calculation	467010		
92560766010	EB-1	Total Radium Calculation	467010		
92560766011	FB-1	Total Radium Calculation	467010		
92560766012	DGWC-4	Total Radium Calculation	467010		
92560766013	DGWC-5	Total Radium Calculation	467010		
92560766014	DUP-2	Total Radium Calculation	467010		
92560766015	DGWC-9	Total Radium Calculation	467010		
92560766016	FB-2	Total Radium Calculation	467011		
92560766017	DGWC-10	Total Radium Calculation	467011		
92560766018	DGWC-20	Total Radium Calculation	467011		
92560766019	DGWC-22	Total Radium Calculation	467011		
92560766020	DGWC-47	Total Radium Calculation	467011		
92560766021	DGWC-48	Total Radium Calculation	467011		
92560766022	DUP-1	Total Radium Calculation	467011		
92560766023	EB-2	Total Radium Calculation	467011		
92560766024	DGWC-8	Total Radium Calculation	467010		
92560766025	DGWC-17	Total Radium Calculation	467010		
92560766026	DGWC-42	Total Radium Calculation	467010		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92560766



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

Custody Seal Present? Yes No **Seals Intact?** Yes No

Date/Initials Person Examining Contents: *MT 9/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer:
 IR Gun ID: *230* **Type of Ice:** Wet Blue None

Cooler Temp: *3.4* **Correction Factor:** *±0.1*
 Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *3.5*

USDA Regulated Soil (N/A, water sample)

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

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

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ **Date/Time:** _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project # **WQ# : 92560766**

PM: NMG

Due Date: 10/01/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project #

WO# : 92560766

PM: NMG

Due Date: 10/01/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
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9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Client Information:

Georgia Power - Coal Combustion Residuals
 2480 Hanner Road
 Atlanta, GA 30339
 John A. Avramian
 404) 596-2339
 10 Day TAT
 Project # 188949618

Section B
Required Project Information:

Report To: John Avramian
 Copy To: Golier
 Purchase Order #
 Plant M: Enough AP-2 3/4
 Project Name
 Invoice Information: Attention: scivincen@southenco.com
 Company Name
 Address:
 Pace Queue
 Pace Project Manager: Kevin Herring
 Pace Profile #
 Requested Analysis Returned (Y/N)

Section C
Regulatory Agency

State / Location: GA
 Regulatory Agency

Page: 1 of 1

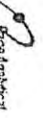
SAMPLE ID
One Character per box.
(A-Z, 0-9, /, -)
Sample IDs must be unique

MATRIX: DOWNG WATER, WWT, WWT, WWT, WWT, WWT, WWT, WWT, WWT, WWT, WWT
 CODE: DW, WT, WW, P, T, S, M, AS, OT, T, T

NO	DESCRIPTION	MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNPRESERVED - ICE	PRESERVATIVES	ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	PH
1	DGWC-2	G	9/9/2021	13:10	5	2	3		X X X X	X	pH = 8.00
2	DGWC-11	G	9/9/2021	9:55	7	2	5		X X X X	X	pH = 5.59
3	DGWC-12	G	9/9/2021	14:25	5	2	3		X X X X	X	pH = 6.07
4	DGWC-13	G	9/9/2021	15:10	5	2	3		X X X X	X	pH = 5.69
5	DGWC-14	G	9/9/2021	15:50	5	2	3		X X X X	X	pH = 5.70
6	DGWC-15	G	9/9/2021	13:49	5	2	3		X X X X	X	pH = 5.83
7	DGWC-18	G	9/9/2021	19:49	5	2	3		X X X X	X	pH = 4.82
8	DGWC-21	G	9/9/2021	12:43	5	2	3		X X X X	X	pH = 5.73
9	DGWC-23	G	9/9/2021	12:15	5	2	3		X X X X	X	pH = 6.00
0	EB-1	G	9/9/2021	16:40	5	2	3		X X X X	X	pH = NA
1	FB-1	G	9/9/2021	13:40	5	2	3		X X X X	X	pH = NA
2	DGWC-4	G	9/10/2021	11:08	5	2	3		X X X X	X	pH = 5.83
3	DGWC-5	G	9/10/2021	14:32	5	2	3		X X X X	X	pH = 4.89
4	DUP-2	G	9/10/2021	-	5	2	3		X X X X	X	pH = NA
5	DGWC-9	G	9/10/2021	11:32	5	2	3		X X X X	X	pH = 3.98

REQUISITIONED BY: John Avramian DATE: 9/10/21 TIME: 17:40
 ACCEPTED BY / AFFILIATION: Charles Foye DATE: 9/10/21 TIME: 17:40:24
 ADDITIONAL COMMENTS:

DATE SIGNED: 9/10/21
 SIGNED: JOHN AVRAMIAN
 RECEIVED ON ICE (Y/N)
 CUSTODY SEAL (Y/N)
 COOLER (Y/N)
 SAMPLES INTACT (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Client Information:

Company: Georgia Power Coal Combustion Residues
 2460 Manor Road
 Atlanta GA 30339
 Email: jbrahram@southnrc.com
 Phone: (404) 506-7239
 Project # 19 Day TAT

Section B
Required Project Information:

Report To: Julie Abraham
Copy To: Collier
Purchase Order #:
Project Name: Plant McDorco 9th AP-2-314
Price Profile #

Section C
Invoice Information:

Attention: escanvices@southnrc.com
Company Name:
Address:
Price Quote:
Face Project Manager: Kevin Herrig
Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)									
						# OF CONTAINERS	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol		Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Temp in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
1	FB-2	G	9/10/2021	11:00	5	2	3																
2	DGWC-10	G	9/10/2021	13:30	7	2	5																
3	DGWC-20	G	9/10/2021	12:48	5	2	3																
4	DGWC-22	G	9/10/2021	12:58	5	2	3																
5	DGWC-47	G	9/10/2021	11:00	5	2	3																
6	DGWC-48	G	9/10/2021	10:56	5	2	3																
7	DUP_1	G	9/10/2021	--	5	2	3																
8	EB-2	G	9/10/2021	10:35	5	2	3																

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

MATRIX CODE (see valid codes to left)

MATRIX: Deriving Water, Water, Waste Water, Sediment, Sludge, Air, Other, TSS
CODE: DW, WT, WW, SL, WP, AR, OT, TS

REIMBURSED BY / AFFILIATION
PHU / Sample

DATE: 9/10/21

DATE Signed: 9/10/21

ACCEPTED BY / AFFILIATION
Chandra Patel 9/10/21
Julie Woychyniak


ADDITIONAL COMMENTS

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: GA POWER	Project #:
-------------------------------	---------------------------------	------------

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

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: **THR214** Type of Ice: Wet Blue None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.8

USDA Regulated Soil N/A, water sample

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

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

Date/Initials Person Examining Contents: **9/14/21 KAD**

Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

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

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/BD15 (water) DOC, LLHg

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

--

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP9T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.9-9.7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

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

Section A
 Required Client Information:
 Company: Sciqual Power - Coal Combustion Feedstocks
 Address: 2400 James Road
 Atlanta, GA 30338
 Email: jborstam@sciqual.com
 Phone: (404) 566-7298 Fax: _____
 Requested Date: 10/07/17

Section B
 Required Project Information:
 Report To: Jim Auerham
 Copy To: Goody
 Purchase Order #: _____
 Project Name: Pearl McDonough AP-2-14
 Project #: 18894821

Section C
 Invoicing Information:
 Address: _____
 Company Name: _____
 Project Name: _____
 Project Number: _____
 Requesting Agency: _____
 State / Location: _____

ITEM #	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES										ANALYSES TEST				RESIDUAL CHLORINE (Y/N)	PH																																						
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App IIIIV Total Metals	CL F, SO4, TDS	Radium 226/228	Residual Chlorine (Y/N)	PH																																									
1	DSWIC-8	10/7/17	11:00		3															2	DSWIC-17	10/7/17	11:04		5															3	DSWIC-42	10/7/17	15:00		5														
2	DSWIC-17	10/7/17	11:04		5															3	DSWIC-42	10/7/17	15:00		5																																		
3	DSWIC-42	10/7/17	15:00		5																																																						

TEMP in C _____
 Received on ice (Y/N) _____
 Custody Sealed Cooler (Y/N) _____
 Sample Intact (Y/N) _____
 DATE signed: 09-29-21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/1/2021
Worklist: 62848
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247069
MB concentration:	0.209
MB 2 Sigma CSU:	0.287
MB MDC:	0.612
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62848	LCS/D62848
Count Date:	10/4/2021	10/4/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.973	37.973
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.812
Target Conc. (pCi/L, g, F):	4.703	4.676
Uncertainty (Calculated):	0.230	0.229
Result (pCi/L, g, F):	3.772	4.931
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.892	1.094
Numerical Performance Indicator:	-1.98	0.45
Percent Recovery:	80.20%	105.45%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62848
Duplicate Sample I.D.:	LCS/D62848
Sample Result (pCi/L, g, F):	3.772
Sample Duplicate Result (pCi/L, g, F):	0.892
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.931
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.094
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.609
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MS Status vs Numerical Indicator: MS Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Handwritten initials/signature

Handwritten initials/signature

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/28/2021
Worklist: 62846
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247067
MB concentration:	0.554
M/B 2 Sigma CSU:	0.366
MB MDC:	0.696
MB Numerical Performance Indicator:	2.96
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62846	Y
Count Date:	9/30/2021	LCS62846
Spike I.D.:	21-029	9/30/2021
Decay Corrected Spike Concentration (pCi/mL):	38.024	21-029
Volume Used (mL):	0.10	38.024
Aliquot Volume (L, g, F):	0.813	0.10
Target Conc. (pCi/L, g, F):	4.874	0.807
Uncertainty (Calculated):	0.229	4.710
Result (pCi/L, g, F):	5.375	5.752
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.201	1.275
Numerical Performance Indicator:	1.12	1.58
Percent Recovery:	114.99%	122.14%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS62846
Duplicate Sample I.D.:	LCS62846
Sample Result (pCi/L, g, F):	5.375
Sample Duplicate Result (pCi/L, g, F):	1.201
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.752
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.275
Ave sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.422
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.03%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MS Spike Uncertainty (calculated): MS Spike Uncertainty (calculated): MS/MSD Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MS Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/27/2021
Worklist: 62847
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247068
MB Concentration:	0.189
M/B Counting Uncertainty:	0.179
MB MDC:	0.337
MB Numerical Performance Indicator:	2.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS62847	Y
Count Date:	10/6/2021	LCS62847
Spike ID:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.507
Target Conc. (pCi/L, g, F):	4.719	4.738
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.606	4.636
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.693	0.670
Numerical Performance Indicator:	-0.32	-0.30
Percent Recovery:	97.60%	97.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limit:	125%	125%
Lower % Recovery Limit:	75%	75%

Duplicate Sample Assessment	LCS62847	92560765023
Sample ID:	LCS62847	92560765023
Duplicate Sample ID:	LCS62847	92560765023DUP
Sample Result (pCi/L, g, F):	4.606	0.416
Sample Duplicate Result (pCi/L, g, F):	0.693	0.272
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.636	0.488
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.670	0.269
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.061	-0.372
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.27%	16.04%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample ID:		
Sample MS ID:		
Sample MSD ID:		
Spike ID:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limit:		
MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	
Sample MS ID:	
Sample MSD ID:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

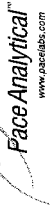
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten notes:
OK
10/6/21

Handwritten notes:
10/6/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/28/2021
Worklist: 62849
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247072
MB concentration:	0.007
M/B Counting Uncertainty:	0.168
MB MDC:	0.443
MB Numerical Performance Indicator:	0.08
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS/D (Y or N)?	LCS/D (Y or N)?	
	LCS62849	LCS62849
Count Date:	10/6/2021	10/6/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.502
Target Conc. (pCi/L, g, F):	4.779	4.791
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.249	5.218
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.691	0.720
Numerical Performance Indicator:	1.33	1.16
Percent Recovery:	109.83%	108.93%
Status vs Numerical Indicator:	Pass	N/A
Upper % Recovery Limits:	125%	Pass
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92560766017
Duplicate Sample I.D.:	92560766017DUP
Sample Result (pCi/L, g, F):	0.383
Sample Duplicate Result (pCi/L, g, F):	0.227
Sample Result Counting Uncertainty (pCi/L, g, F):	0.691
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.174
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.199
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.060
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.82%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch cannot be re-prepped due to unacceptable precision. N/A
SAM 10/10/21

10/10/21
LAW

October 06, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560768002	B-102D	Water	09/10/21 14:27	09/10/21 17:40
92560768003	B-109D	Water	09/10/21 13:05	09/10/21 17:40
92560768004	EB-3	Water	09/10/21 15:00	09/10/21 17:40
92560768005	B-56	Water	09/13/21 13:11	09/14/21 09:35
92560768006	B-88	Water	09/13/21 14:35	09/14/21 09:35
92560768007	B-101D	Water	09/13/21 15:52	09/14/21 09:35
92560768008	B-106D	Water	09/13/21 12:10	09/14/21 09:35
92560768009	B-107D	Water	09/13/21 17:35	09/14/21 09:35
92560768010	FB-3	Water	09/13/21 16:30	09/14/21 09:35
92560768011	DUP-3	Water	09/13/21 00:00	09/14/21 09:35
92560768012	B-63	Water	09/14/21 12:45	09/15/21 09:34
92560768013	B-66	Water	09/14/21 11:02	09/15/21 09:34
92560768014	B-77	Water	09/14/21 10:45	09/15/21 09:34
92560768015	B-82	Water	09/14/21 12:55	09/15/21 09:34
92560768016	B-104D	Water	09/14/21 16:45	09/15/21 09:34
92560768017	B-108D	Water	09/14/21 11:25	09/15/21 09:34
92560768018	B-111D	Water	09/14/21 15:37	09/15/21 09:34
92560768019	B-115D	Water	09/14/21 15:00	09/15/21 09:34
92560768020	B-120D	Water	09/14/21 14:50	09/15/21 09:34
92560768021	DUP-4	Water	09/14/21 00:00	09/15/21 09:34
92560768022	EB-4	Water	09/14/21 16:35	09/15/21 09:34
92560768023	B-92	Water	09/15/21 11:38	09/16/21 09:06
92560768024	B-93	Water	09/15/21 11:31	09/16/21 09:06
92560768025	B-97	Water	09/15/21 12:50	09/16/21 09:06
92560768026	B-98	Water	09/15/21 13:10	09/16/21 09:06
92560768027	DUP-5	Water	09/15/21 00:00	09/16/21 09:06
92560768028	FB-5	Water	09/15/21 13:25	09/16/21 09:06
92560768029	EB-5	Water	09/15/21 13:35	09/16/21 09:06
92560768030	B-83	Water	09/16/21 11:37	09/17/21 17:06
92560768031	FB-6	Water	09/16/21 11:55	09/17/21 17:06

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768002	B-102D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768003	B-109D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768004	EB-3	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768005	B-56	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768006	B-88	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768007	B-101D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768008	B-106D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768009	B-107D	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768010	FB-3	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768011	DUP-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92560768012	B-63	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92560768013	B-66	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768014	B-77	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560768015	B-82	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768016	B-104D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768017	B-108D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768018	B-111D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768019	B-115D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768020	B-120D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768021	DUP-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768022	EB-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768023	B-92	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768024	B-93	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768025	B-97	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560768026	B-98	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92560768027	DUP-5	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768028	FB-5	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768029	EB-5	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92560768030	B-83	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560768031	FB-6	EPA 7470A	VB	1
		EPA 6020B	CW1	13
		EPA 6010D	KH	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-102D		Lab ID: 92560768002		Collected: 09/10/21 14:27		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 08:41		
pH	5.36	Std. Units			1		09/13/21 08:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	84.7	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 16:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 16:46	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 16:46	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 16:46	7440-41-7	
Boron	2.5	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 16:46	7440-42-8	
Cadmium	0.00083	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 16:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 16:46	7440-47-3	
Cobalt	0.013	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 16:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 16:46	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 16:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 16:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 16:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 16:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	474	mg/L	10.0	10.0	1		09/16/21 14:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.2	mg/L	1.0	0.60	1		09/15/21 06:54	16887-00-6	
Fluoride	0.083J	mg/L	0.10	0.050	1		09/15/21 06:54	16984-48-8	
Sulfate	271	mg/L	6.0	3.0	6		09/15/21 18:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: B-109D		Lab ID: 92560768003		Collected: 09/10/21 13:05		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 08:41		
pH	6.86	Std. Units			1		09/13/21 08:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	42.1	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:08	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0040	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:08	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:08	7440-41-7	
Boron	0.41	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:08	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:08	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	284	mg/L	10.0	10.0	1		09/16/21 14:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.8	mg/L	1.0	0.60	1		09/15/21 08:11	16887-00-6	M1
Fluoride	0.15	mg/L	0.10	0.050	1		09/15/21 08:11	16984-48-8	M1
Sulfate	93.2	mg/L	1.0	0.50	1		09/15/21 08:11	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: EB-3		Lab ID: 92560768004		Collected: 09/10/21 15:00		Received: 09/10/21 17:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	0.17J	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:39	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:14	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:14	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:14	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:14	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:14	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:14	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:14	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:14	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:14	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:14	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:14	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:14	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:14	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:23	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/16/21 14:40			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 08:57	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 08:57	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 08:57	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-56		Lab ID: 92560768005		Collected: 09/13/21 13:11		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:05		
pH	4.69	Std. Units			1		09/14/21 11:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.2	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:20	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:20	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:20	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:20	7440-41-7	
Boron	1.5	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:20	7440-42-8	
Cadmium	0.00028J	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:20	7440-47-3	
Cobalt	0.047	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:20	7439-92-1	
Lithium	0.0055J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:20	7439-98-7	
Selenium	0.011	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:20	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	321	mg/L	10.0	10.0	1		09/23/21 13:17		1g,H1
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.1	mg/L	1.0	0.60	1		09/15/21 17:56	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		09/15/21 17:56	16984-48-8	
Sulfate	189	mg/L	4.0	2.0	4		09/15/21 23:45	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-88		Lab ID: 92560768006		Collected: 09/13/21 14:35		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:05		
pH	5.68	Std. Units			1		09/14/21 11:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	80.5	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:26	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:26	7440-39-3	
Beryllium	0.0010	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:26	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:26	7440-42-8	
Cadmium	0.0013	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:26	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:26	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:26	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	572	mg/L	20.0	20.0	1		09/20/21 16:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.2	mg/L	1.0	0.60	1		09/15/21 18:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 18:12	16984-48-8	
Sulfate	321	mg/L	7.0	3.5	7		09/16/21 00:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-101D		Lab ID: 92560768007		Collected: 09/13/21 15:52		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:05		
pH	6.07	Std. Units			1		09/14/21 11:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	53.6	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0010J	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:00	7440-38-2	
Barium	0.076	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:09	7440-39-3	
Beryllium	0.000067J	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:00	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:00	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:00	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:00	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	343	mg/L	10.0	10.0	1		09/20/21 16:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.7	mg/L	1.0	0.60	1		09/15/21 18:27	16887-00-6	
Fluoride	0.051J	mg/L	0.10	0.050	1		09/15/21 18:27	16984-48-8	
Sulfate	174	mg/L	4.0	2.0	4		09/16/21 00:16	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-106D		Lab ID: 92560768008		Collected: 09/13/21 12:10		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:06		
pH	5.91	Std. Units			1		09/14/21 11:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	42.1	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:06	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:15	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:06	7440-41-7	
Boron	1.3	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:06	7440-42-8	
Cadmium	0.00024J	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:06	7440-47-3	
Cobalt	0.00056J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:06	7439-92-1	
Lithium	0.0056J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	296	mg/L	10.0	10.0	1		09/20/21 16:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		09/15/21 19:47	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		09/15/21 19:47	16984-48-8	
Sulfate	147	mg/L	3.0	1.5	3		09/16/21 01:03	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-107D		Lab ID: 92560768009		Collected: 09/13/21 17:35		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:06		
pH	5.88	Std. Units			1		09/14/21 11:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	83.6	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:11	7440-38-2	
Barium	0.087	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:11	7440-41-7	
Boron	10.7	mg/L	0.40	0.086	10	09/23/21 08:32	09/24/21 15:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:11	7440-47-3	
Cobalt	0.00083J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:11	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	567	mg/L	10.0	10.0	1		09/20/21 16:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	11.7	mg/L	1.0	0.60	1		09/15/21 20:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:03	16984-48-8	
Sulfate	275	mg/L	6.0	3.0	6		09/16/21 01:19	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: FB-3		Lab ID: 92560768010		Collected: 09/13/21 16:30	Received: 09/14/21 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 17:30	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:17	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:17	7440-41-7	
Boron	0.016J	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:17	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:44	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/20/21 16:35		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 20:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 20:19	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: DUP-3		Lab ID: 92560768011		Collected: 09/13/21 00:00	Received: 09/14/21 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	39.8	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 17:54	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:23	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:33	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:23	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:23	7440-42-8	
Cadmium	0.00021J	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:23	7440-47-3	
Cobalt	0.00056J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:23	7439-92-1	
Lithium	0.0057J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:23	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:46	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	297	mg/L	10.0	10.0	1		09/20/21 16:36		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	6.9	mg/L	1.0	0.60	1		09/15/21 20:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:35	16984-48-8	
Sulfate	149	mg/L	3.0	1.5	3		09/16/21 02:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-63		Lab ID: 92560768012		Collected: 09/14/21 12:45		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:06		
pH	5.46	Std. Units			1		09/15/21 11:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	22.7	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 17:59	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:29	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:38	7440-39-3	
Beryllium	0.00042J	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:29	7440-41-7	
Boron	0.35	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:29	7440-42-8	
Cadmium	0.00025J	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:29	7440-47-3	
Cobalt	0.037	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:29	7439-92-1	
Lithium	0.0064J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	170	mg/L	10.0	10.0	1		09/20/21 16:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.1	mg/L	1.0	0.60	1		09/17/21 01:51	16887-00-6	M1
Fluoride	0.16	mg/L	0.10	0.050	1		09/17/21 01:51	16984-48-8	M1
Sulfate	73.2	mg/L	1.0	0.50	1		09/17/21 01:51	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-66		Lab ID: 92560768013		Collected: 09/14/21 11:02		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:06		
pH	5.54	Std. Units			1		09/15/21 11:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	60.9	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:34	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:34	7440-41-7	
Boron	2.1	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:34	7440-47-3	
Cobalt	0.012	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:34	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	490	mg/L	20.0	20.0	1		09/21/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.9	mg/L	1.0	0.60	1		09/17/21 02:38	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		09/17/21 02:38	16984-48-8	
Sulfate	268	mg/L	6.0	3.0	6		09/17/21 21:14	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-77		Lab ID: 92560768014		Collected: 09/14/21 10:45	Received: 09/15/21 09:34	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:07		
pH	6.42	Std. Units			1		09/15/21 11:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	17.0	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:40	7440-38-2	
Barium	0.12	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:40	7440-41-7	
Boron	0.29	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	94.0	mg/L	10.0	10.0	1		09/21/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		09/17/21 02:53	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		09/17/21 02:53	16984-48-8	
Sulfate	2.5	mg/L	1.0	0.50	1		09/17/21 02:53	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-82		Lab ID: 92560768015		Collected: 09/14/21 12:55		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:07		
pH	5.15	Std. Units			1		09/15/21 11:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	33.4	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:46	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:56	7440-39-3	
Beryllium	0.0017	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:46	7440-41-7	
Boron	0.78	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:46	7440-42-8	
Cadmium	0.00070	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:46	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:46	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	536	mg/L	20.0	20.0	1		09/21/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.5	mg/L	1.0	0.60	1		09/17/21 03:09	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		09/17/21 03:09	16984-48-8	
Sulfate	326	mg/L	7.0	3.5	7		09/17/21 21:30	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-104D		Lab ID: 92560768016		Collected: 09/14/21 16:45	Received: 09/15/21 09:34	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:07		
pH	8.58	Std. Units			1		09/15/21 11:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	151	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:52	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:52	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 10:02	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:52	7440-41-7	
Boron	0.23	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:52	7440-47-3	
Cobalt	0.10	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:52	7439-92-1	
Lithium	0.036	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	776	mg/L	20.0	20.0	1		09/21/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.9	mg/L	1.0	0.60	1		09/17/21 04:11	16887-00-6	
Fluoride	0.50	mg/L	0.10	0.050	1		09/17/21 04:11	16984-48-8	
Sulfate	456	mg/L	10.0	5.0	10		09/17/21 21:46	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: B-108D		Lab ID: 92560768017		Collected: 09/14/21 11:25		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:07		
pH	5.81	Std. Units			1		09/15/21 11:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	83.3	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:09	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 10:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 19:09	7440-41-7	
Boron	6.8	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:09	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 19:09	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 19:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 19:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 19:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	576	mg/L	20.0	20.0	1		09/21/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	28.8	mg/L	1.0	0.60	1		09/17/21 04:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/21 04:26	16984-48-8	
Sulfate	299	mg/L	7.0	3.5	7		09/17/21 22:02	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-111D		Lab ID: 92560768018		Collected: 09/14/21 15:37		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:07		
pH	7.29	Std. Units			1		09/15/21 11:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	98.4	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 19:14	7440-36-0	
Arsenic	0.0029J	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:14	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 10:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 19:14	7440-41-7	
Boron	0.32	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 19:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 19:14	7439-92-1	
Lithium	0.029J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 19:14	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 19:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	586	mg/L	20.0	20.0	1		09/21/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	27.3	mg/L	1.0	0.60	1		09/17/21 04:42	16887-00-6	
Fluoride	0.57	mg/L	0.10	0.050	1		09/17/21 04:42	16984-48-8	
Sulfate	243	mg/L	5.0	2.5	5		09/17/21 22:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: B-115D		Lab ID: 92560768019		Collected: 09/14/21 15:00		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		09/15/21 11:08		
pH	5.38	Std. Units			1		09/15/21 11:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	63.0	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:57	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 15:54	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 15:54	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 15:54	7440-39-3	
Beryllium	0.011	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 15:54	7440-41-7	
Boron	0.61	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 15:54	7440-42-8	
Cadmium	0.00035J	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 15:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 15:54	7440-47-3	
Cobalt	0.28	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 15:54	7439-92-1	
Lithium	0.085	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 15:54	7439-93-2	M1
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 15:54	7439-98-7	
Selenium	0.0041J	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 15:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 15:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	499	mg/L	10.0	10.0	1		09/21/21 12:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	9.0	mg/L	1.0	0.60	1		09/17/21 04:57	16887-00-6	
Fluoride	1.0	mg/L	0.10	0.050	1		09/17/21 04:57	16984-48-8	
Sulfate	278	mg/L	6.0	3.0	6		09/17/21 22:35	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: B-120D		Lab ID: 92560768020		Collected: 09/14/21 14:50		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:08		
pH	5.30	Std. Units			1		09/15/21 11:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	162	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:17	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 16:17	7440-39-3	
Beryllium	0.00087	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 16:17	7440-41-7	
Boron	1.7	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 16:17	7440-42-8	
Cadmium	0.0011	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 16:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:17	7440-47-3	
Cobalt	0.0055	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 16:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 16:17	7439-92-1	
Lithium	0.077	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 16:17	7439-98-7	
Selenium	0.0022J	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 16:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 16:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	882	mg/L	20.0	20.0	1		09/21/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.1	mg/L	1.0	0.60	1		09/17/21 05:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/21 05:13	16984-48-8	
Sulfate	552	mg/L	12.0	6.0	12		09/17/21 22:51	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: DUP-4		Lab ID: 92560768021		Collected: 09/14/21 00:00		Received: 09/15/21 09:34		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	59.5	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:06	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 16:23	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:23	7440-38-2		
Barium	0.019	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 16:23	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 16:23	7440-41-7		
Boron	2.0	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 16:23	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 16:23	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:23	7440-47-3		
Cobalt	0.013	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 16:23	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 16:23	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 16:23	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 16:23	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 16:23	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 16:23	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:18	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	510	mg/L	20.0	20.0	1		09/21/21 12:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	8.8	mg/L	1.0	0.60	1		09/17/21 05:28	16887-00-6		
Fluoride	0.19	mg/L	0.10	0.050	1		09/17/21 05:28	16984-48-8		
Sulfate	260	mg/L	6.0	3.0	6		09/17/21 23:07	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: EB-4		Lab ID: 92560768022		Collected: 09/14/21 16:35		Received: 09/15/21 09:34		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:11	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 16:28	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:28	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 16:28	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 16:28	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 16:28	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 16:28	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:28	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 16:28	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 16:28	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 16:28	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 16:28	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 16:28	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 16:28	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 12:34			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/17/21 06:14	16887-00-6	M1	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/21 06:14	16984-48-8	M1	
Sulfate	ND	mg/L	1.0	0.50	1		09/17/21 06:14	14808-79-8	M1	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-92		Lab ID: 92560768023		Collected: 09/15/21 11:38		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/16/21 12:02		
pH	4.55	Std. Units			1		09/16/21 12:02		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	110	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:16	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:10	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:10	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:10	7440-39-3	
Beryllium	0.014	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:10	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:10	7440-42-8	
Cadmium	0.00096	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:10	7440-47-3	
Cobalt	0.063	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:10	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:10	7439-98-7	
Selenium	0.0067	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	612	mg/L	20.0	20.0	1		09/21/21 19:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.4	mg/L	1.0	0.60	1		09/18/21 03:21	16887-00-6	
Fluoride	0.18	mg/L	0.10	0.050	1		09/18/21 03:21	16984-48-8	
Sulfate	384	mg/L	9.0	4.5	9		09/18/21 13:21	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-93		Lab ID: 92560768024		Collected: 09/15/21 11:31		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/16/21 12:02		
pH	4.60	Std. Units			1		09/16/21 12:02		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	129	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:16	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:16	7440-39-3	
Beryllium	0.015	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:16	7440-41-7	
Boron	3.1	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:16	7440-42-8	
Cadmium	0.00088	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:16	7440-47-3	
Cobalt	0.062	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:16	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:16	7439-98-7	
Selenium	0.0076	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000098J	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	812	mg/L	20.0	20.0	1		09/21/21 19:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.2	mg/L	1.0	0.60	1		09/18/21 03:37	16887-00-6	
Fluoride	0.34	mg/L	0.10	0.050	1		09/18/21 03:37	16984-48-8	
Sulfate	478	mg/L	11.0	5.5	11		09/18/21 13:37	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-97		Lab ID: 92560768025		Collected: 09/15/21 12:50		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/16/21 12:02		
pH	5.49	Std. Units			1		09/16/21 12:02		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	178	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:26	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:22	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:22	7440-39-3	
Beryllium	0.0016	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:22	7440-41-7	
Boron	3.3	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:22	7440-42-8	
Cadmium	0.00056	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:22	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:22	7439-92-1	
Lithium	0.0042J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:22	7439-98-7	
Selenium	0.0024J	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:22	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	892	mg/L	20.0	20.0	1		09/21/21 19:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.8	mg/L	1.0	0.60	1		09/18/21 03:53	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		09/18/21 03:53	16984-48-8	
Sulfate	551	mg/L	12.0	6.0	12		09/18/21 13:53	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-98		Lab ID: 92560768026		Collected: 09/15/21 13:10		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/16/21 12:02		
pH	5.40	Std. Units			1		09/16/21 12:02		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	105	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:27	7440-38-2	
Barium	0.082	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:27	7440-39-3	
Beryllium	0.00087	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:27	7440-41-7	
Boron	2.6	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:27	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:27	7440-47-3	
Cobalt	0.0048J	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:27	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:27	7439-98-7	
Selenium	0.0033J	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	524	mg/L	20.0	20.0	1		09/21/21 19:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	29.9	mg/L	1.0	0.60	1		09/18/21 04:09	16887-00-6	M1
Fluoride	0.098J	mg/L	0.10	0.050	1		09/18/21 04:09	16984-48-8	
Sulfate	325	mg/L	7.0	3.5	7		09/18/21 14:40	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: DUP-5		Lab ID: 92560768027		Collected: 09/15/21 00:00	Received: 09/16/21 09:06	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	137	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:45	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:33	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:33	7440-38-2		
Barium	0.015	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:33	7440-39-3		
Beryllium	0.015	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:33	7440-41-7		
Boron	3.1	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:33	7440-42-8		
Cadmium	0.00086	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:33	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:33	7440-47-3		
Cobalt	0.058	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:33	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:33	7439-92-1		
Lithium	0.011J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:33	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:33	7439-98-7		
Selenium	0.0066	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:33	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:33	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.00011J	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:54	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	742	mg/L	20.0	20.0	1		09/21/21 19:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	13.6	mg/L	1.0	0.60	1		09/18/21 05:28	16887-00-6		
Fluoride	0.32	mg/L	0.10	0.050	1		09/18/21 05:28	16984-48-8		
Sulfate	469	mg/L	11.0	5.5	11		09/18/21 15:27	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: FB-5		Lab ID: 92560768028		Collected: 09/15/21 13:25	Received: 09/16/21 09:06	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:55	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:39	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:39	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:39	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:39	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:39	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:39	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:39	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:39	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:39	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:39	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:39	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:39	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:39	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:56	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 19:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/18/21 05:44	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 05:44	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/18/21 05:44	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: EB-5		Lab ID: 92560768029		Collected: 09/15/21 13:35		Received: 09/16/21 09:06		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 20:00	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:45	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:45	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:45	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:45	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:45	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:45	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:45	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:45	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:45	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:45	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:45	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:45	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:45	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:59	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 19:10			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/18/21 06:00	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 06:00	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/18/21 06:00	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: B-83		Lab ID: 92560768030		Collected: 09/16/21 11:37		Received: 09/17/21 17:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/20/21 14:49		
pH	5.58	Std. Units			1		09/20/21 14:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	39.4	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 19:10	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 19:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:02	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 19:02	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 19:02	7440-41-7	
Boron	0.30	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 19:02	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 19:02	7440-43-9	
Chromium	0.0030J	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:02	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 19:02	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 19:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 19:02	7439-98-7	
Selenium	0.025	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 19:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 19:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	223	mg/L	10.0	10.0	1		09/23/21 20:02		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.6	mg/L	1.0	0.60	1		09/21/21 18:03	16887-00-6	
Fluoride	0.066J	mg/L	0.10	0.050	1		09/21/21 18:03	16984-48-8	
Sulfate	106	mg/L	2.0	1.0	2		09/22/21 04:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Sample: FB-6		Lab ID: 92560768031		Collected: 09/16/21 11:55	Received: 09/17/21 17:06	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 19:19	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 19:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:07	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 19:07	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 19:07	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 19:07	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 19:07	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 19:07	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 19:07	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 19:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 19:07	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 19:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 19:07	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 19:09	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/23/21 20:02			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/21/21 18:18	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/21/21 18:18	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/21/21 18:18	14808-79-8		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	648974	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009

METHOD BLANK: 3403796 Matrix: Water

Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/23/21 17:54	

LABORATORY CONTROL SAMPLE: 3403797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3403798 3403799

Parameter	Units	92560768003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	42.1	1	1	41.6	40.7	-42	-139	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	649478	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

METHOD BLANK: 3406360 Matrix: Water

Associated Lab Samples: 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/27/21 17:20	

LABORATORY CONTROL SAMPLE: 3406361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406362 3406363

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768012 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	22.7	1	1	23.3	22.2	61	-46	75-125	5	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 649648	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768030, 92560768031

METHOD BLANK: 3407003 Matrix: Water

Associated Lab Samples: 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/29/21 16:41	

LABORATORY CONTROL SAMPLE: 3407004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407005 3407006

Parameter	Units	3407005		3407006		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	45.1	1	1	46.7	46.4	160	129	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 648942 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018

METHOD BLANK: 3403716 Matrix: Water
Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/23/21 16:34	
Arsenic	mg/L	ND	0.0050	0.0011	09/23/21 16:34	
Barium	mg/L	ND	0.0050	0.00067	09/23/21 16:34	
Beryllium	mg/L	ND	0.00050	0.000054	09/23/21 16:34	
Boron	mg/L	ND	0.040	0.0086	09/23/21 16:34	
Cadmium	mg/L	ND	0.00050	0.00011	09/23/21 16:34	
Chromium	mg/L	ND	0.0050	0.0011	09/23/21 16:34	
Cobalt	mg/L	ND	0.0050	0.00039	09/23/21 16:34	
Lead	mg/L	ND	0.0010	0.00089	09/23/21 16:34	
Lithium	mg/L	ND	0.030	0.00073	09/23/21 16:34	
Molybdenum	mg/L	ND	0.010	0.00074	09/23/21 16:34	
Selenium	mg/L	ND	0.0050	0.0014	09/23/21 16:34	
Thallium	mg/L	ND	0.0010	0.00018	09/23/21 16:34	

LABORATORY CONTROL SAMPLE: 3403717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Parameter	Units	92560768002		3403718		3403719		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	101	75-125	5	20			
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	3	20			
Barium	mg/L	0.020	0.1	0.1	0.13	0.12	107	100	75-125	5	20			
Beryllium	mg/L	0.0011	0.1	0.1	0.092	0.091	91	90	75-125	1	20			
Boron	mg/L	2.5	1	1	3.6	3.3	109	87	75-125	6	20			
Cadmium	mg/L	0.00083	0.1	0.1	0.10	0.10	102	101	75-125	1	20			
Chromium	mg/L	ND	0.1	0.1	0.096	0.091	95	91	75-125	5	20			
Cobalt	mg/L	0.013	0.1	0.1	0.11	0.11	97	92	75-125	4	20			
Lead	mg/L	ND	0.1	0.1	0.092	0.088	92	88	75-125	4	20			
Lithium	mg/L	0.012J	0.1	0.1	0.11	0.10	93	91	75-125	3	20			
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20			
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	100	75-125	6	20			
Thallium	mg/L	ND	0.1	0.1	0.093	0.089	92	88	75-125	4	20			

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 649183 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

METHOD BLANK: 3405029 Matrix: Water
Associated Lab Samples: 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/24/21 15:43	
Arsenic	mg/L	ND	0.0050	0.0011	09/24/21 15:43	
Barium	mg/L	ND	0.0050	0.00067	09/24/21 15:43	
Beryllium	mg/L	ND	0.00050	0.000054	09/24/21 15:43	
Boron	mg/L	ND	0.040	0.0086	09/24/21 15:43	
Cadmium	mg/L	ND	0.00050	0.00011	09/24/21 15:43	
Chromium	mg/L	ND	0.0050	0.0011	09/24/21 15:43	
Cobalt	mg/L	ND	0.0050	0.00039	09/24/21 15:43	
Lead	mg/L	ND	0.0010	0.00089	09/24/21 15:43	
Lithium	mg/L	ND	0.030	0.00073	09/24/21 15:43	
Molybdenum	mg/L	ND	0.010	0.00074	09/24/21 15:43	
Selenium	mg/L	ND	0.0050	0.0014	09/24/21 15:43	
Thallium	mg/L	ND	0.0010	0.00018	09/24/21 15:43	

LABORATORY CONTROL SAMPLE: 3405030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405031 3405032

Parameter	Units	92560768019 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Parameter	Units	3405031		3405032		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	0.0018J	0.1	0.1	0.098	0.098	96	96	75-125	0	20		
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	105	104	75-125	1	20		
Beryllium	mg/L	0.011	0.1	0.1	0.094	0.092	82	80	75-125	2	20		
Boron	mg/L	0.61	1	1	1.4	1.4	83	77	75-125	4	20		
Cadmium	mg/L	0.00035J	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Cobalt	mg/L	0.28	0.1	0.1	0.37	0.36	91	82	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	3	20		
Lithium	mg/L	0.085	0.1	0.1	0.16	0.16	78	72	75-125	4	20	M1	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Selenium	mg/L	0.0041J	0.1	0.1	0.10	0.099	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	649663	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021

METHOD BLANK: 3407068 Matrix: Water

Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/28/21 17:04	

LABORATORY CONTROL SAMPLE: 3407069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407070 3407071

Parameter	Units	3407070		3407071		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0025	106	99	75-125	6	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch:	649667	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

METHOD BLANK: 3407093 Matrix: Water
Associated Lab Samples: 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/28/21 18:20	

LABORATORY CONTROL SAMPLE: 3407094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407095 3407096

Parameter	Units	92560768022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0027	103	107	75-125	4	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 647701	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768002, 92560768003, 92560768004

METHOD BLANK: 3397222 Matrix: Water

Associated Lab Samples: 92560768002, 92560768003, 92560768004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/16/21 14:33	

LABORATORY CONTROL SAMPLE: 3397223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3397224

Parameter	Units	92560774001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	251	4	10	

SAMPLE DUPLICATE: 3397225

Parameter	Units	92560774011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	648323	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012

METHOD BLANK: 3400167

Matrix: Water

Associated Lab Samples: 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/21 16:33	

LABORATORY CONTROL SAMPLE: 3400168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3400169

Parameter	Units	92560963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	127	9	10	

SAMPLE DUPLICATE: 3400170

Parameter	Units	92560768008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	295	0	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 648469

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022

METHOD BLANK: 3400861

Matrix: Water

Associated Lab Samples: 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/21 12:32	

LABORATORY CONTROL SAMPLE: 3400862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	90-111	

SAMPLE DUPLICATE: 3400863

Parameter	Units	92561295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	788	808	3	10	

SAMPLE DUPLICATE: 3400864

Parameter	Units	92560768020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	882	916	4	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 648470

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

METHOD BLANK: 3400865

Matrix: Water

Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/21 19:07	

LABORATORY CONTROL SAMPLE: 3400866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3400867

Parameter	Units	92562042001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	74.0	5	10	

SAMPLE DUPLICATE: 3400868

Parameter	Units	92560768028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 648744	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768005

METHOD BLANK: 3402584 Matrix: Water
Associated Lab Samples: 92560768005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/23/21 13:16	

LABORATORY CONTROL SAMPLE: 3402585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	388	97	90-111	

SAMPLE DUPLICATE: 3402586

Parameter	Units	92560768005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	321	321	0	10	H1

SAMPLE DUPLICATE: 3402587

Parameter	Units	92562006004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	780	56	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 649122	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768030, 92560768031

METHOD BLANK: 3404908 Matrix: Water

Associated Lab Samples: 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/23/21 20:00	

LABORATORY CONTROL SAMPLE: 3404909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	90-111	

SAMPLE DUPLICATE: 3404910

Parameter	Units	92562006012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	644	678	5	10	

SAMPLE DUPLICATE: 3404911

Parameter	Units	92561303008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	113	127	12	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 647162 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768002

METHOD BLANK: 3394748 Matrix: Water
Associated Lab Samples: 92560768002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		3394750		3394751		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10 M1
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10 M1
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		3394752		3394753		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10 M1
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		3394754		3394755		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10 M1
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10 M1
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	90-110	2	10 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 647165 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768003, 92560768004

METHOD BLANK: 3394756 Matrix: Water

Associated Lab Samples: 92560768003, 92560768004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 07:09	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 07:09	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 07:09	

LABORATORY CONTROL SAMPLE: 3394757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394758 3394759

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.8	50	50	63.0	64.6	116	120	90-110	3	10	M1	
Fluoride	mg/L	0.15	2.5	2.5	3.1	3.1	117	119	90-110	2	10	M1	
Sulfate	mg/L	93.2	50	50	136	137	86	87	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394760 3394761

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	12.3	50	50	70.2	71.8	116	119	90-110	2	10	M1	
Fluoride	mg/L	0.084J	2.5	2.5	3.1	3.2	121	125	90-110	3	10	M1	
Sulfate	mg/L	217	50	50	266	268	99	101	90-110	0	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 647237 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011

METHOD BLANK: 3394951 Matrix: Water
Associated Lab Samples: 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 13:41	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 13:41	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 13:41	

LABORATORY CONTROL SAMPLE: 3394952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394953 3394954

Parameter	Units	92560774021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.9	50	50	62.5	63.0	103	104	90-110	1	10	
Fluoride	mg/L	0.47	2.5	2.5	3.3	3.3	112	112	90-110	0	10 M1	
Sulfate	mg/L	272	50	50	315	313	87	82	90-110	1	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394955 3394956

Parameter	Units	92560768007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.7	50	50	59.6	60.9	102	104	90-110	2	10	
Fluoride	mg/L	0.051J	2.5	2.5	2.6	2.7	103	105	90-110	2	10	
Sulfate	mg/L	174	50	50	217	219	88	91	90-110	1	10 M1	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch:	647836	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021

METHOD BLANK: 3398262 Matrix: Water
Associated Lab Samples: 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/16/21 21:28	
Fluoride	mg/L	ND	0.10	0.050	09/16/21 21:28	
Sulfate	mg/L	ND	1.0	0.50	09/16/21 21:28	

LABORATORY CONTROL SAMPLE: 3398263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398264 3398265

Parameter	Units	92560967001		3398265		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1010	50	50	1010	1010	12	-3	90-110	1	10 M1
Fluoride	mg/L	2.7	2.5	2.5	4.9	ND	87	-108	90-110		10 M1
Sulfate	mg/L	88.3	50	50	159	160	141	144	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398266 3398267

Parameter	Units	92560768012		3398267		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	7.1	50	50	66.5	67.5	119	121	90-110	2	10 M1
Fluoride	mg/L	0.16	2.5	2.5	4.2	4.4	162	169	90-110	4	10 M1
Sulfate	mg/L	73.2	50	50	117	118	88	90	90-110	1	10 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 647837	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768022

METHOD BLANK: 3398284 Matrix: Water

Associated Lab Samples: 92560768022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/21 05:43	
Fluoride	mg/L	ND	0.10	0.050	09/17/21 05:43	
Sulfate	mg/L	ND	1.0	0.50	09/17/21 05:43	

LABORATORY CONTROL SAMPLE: 3398285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.3	99	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398286 3398287

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768022	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	59.2	60.1	118	120	90-110	2	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	115	115	90-110	0	10	M1	
Sulfate	mg/L	ND	50	50	59.8	60.7	119	121	90-110	2	10	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

QC Batch: 647979	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

METHOD BLANK: 3398609 Matrix: Water
Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/21 23:38	
Fluoride	mg/L	ND	0.10	0.050	09/17/21 23:38	
Sulfate	mg/L	ND	1.0	0.50	09/17/21 23:38	

LABORATORY CONTROL SAMPLE: 3398610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398611 3398612

Parameter	Units	92561816013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11900	50	50	12800	13000	1830	2190	90-110	1	10	M1
Fluoride	mg/L	3.6	2.5	2.5	4.3	21.0	29	698	90-110	132	10	M1,R1
Sulfate	mg/L	8660	50	50	9380	9600	1430	1880	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398613 3398614

Parameter	Units	92560768026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	29.9	50	50	65.4	66.1	71	72	90-110	1	10	M1
Fluoride	mg/L	0.098J	2.5	2.5	2.8	2.8	109	109	90-110	0	10	
Sulfate	mg/L	325	50	50	365	368	81	86	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 648429 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768030, 92560768031

METHOD BLANK: 3400731 Matrix: Water

Associated Lab Samples: 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/21/21 14:57	
Fluoride	mg/L	ND	0.10	0.050	09/21/21 14:57	
Sulfate	mg/L	ND	1.0	0.50	09/21/21 14:57	

LABORATORY CONTROL SAMPLE: 3400732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400733 3400734

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561303004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.6	50	50	56.6	56.8	102	103	90-110	0	10		
Fluoride	mg/L	0.084J	2.5	2.5	3.0	3.0	118	118	90-110	0	10	M1	
Sulfate	mg/L	95.0	50	50	129	129	67	68	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400735 3400736

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561637004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	50.3	50.7	101	101	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	97	98	90-110	1	10		
Sulfate	mg/L	ND	50	50	52.1	52.5	104	105	90-110	1	10		

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QUALIFIERS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	In-hold results could not be obtained due to suspected inaccurate tare weights on the stable-weigh bags initially used for analysis
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768002	B-102D				
92560768003	B-109D				
92560768005	B-56				
92560768006	B-88				
92560768007	B-101D				
92560768008	B-106D				
92560768009	B-107D				
92560768012	B-63				
92560768013	B-66				
92560768014	B-77				
92560768015	B-82				
92560768016	B-104D				
92560768017	B-108D				
92560768018	B-111D				
92560768019	B-115D				
92560768020	B-120D				
92560768023	B-92				
92560768024	B-93				
92560768025	B-97				
92560768026	B-98				
92560768030	B-83				
92560768002	B-102D	EPA 3010A	648974	EPA 6010D	649029
92560768003	B-109D	EPA 3010A	648974	EPA 6010D	649029
92560768004	EB-3	EPA 3010A	648974	EPA 6010D	649029
92560768005	B-56	EPA 3010A	648974	EPA 6010D	649029
92560768006	B-88	EPA 3010A	648974	EPA 6010D	649029
92560768007	B-101D	EPA 3010A	648974	EPA 6010D	649029
92560768008	B-106D	EPA 3010A	648974	EPA 6010D	649029
92560768009	B-107D	EPA 3010A	648974	EPA 6010D	649029
92560768010	FB-3	EPA 3010A	649478	EPA 6010D	649554
92560768011	DUP-3	EPA 3010A	649478	EPA 6010D	649554
92560768012	B-63	EPA 3010A	649478	EPA 6010D	649554
92560768013	B-66	EPA 3010A	649478	EPA 6010D	649554
92560768014	B-77	EPA 3010A	649478	EPA 6010D	649554
92560768015	B-82	EPA 3010A	649478	EPA 6010D	649554
92560768016	B-104D	EPA 3010A	649478	EPA 6010D	649554
92560768017	B-108D	EPA 3010A	649478	EPA 6010D	649554
92560768018	B-111D	EPA 3010A	649478	EPA 6010D	649554
92560768019	B-115D	EPA 3010A	649478	EPA 6010D	649554
92560768020	B-120D	EPA 3010A	649478	EPA 6010D	649554
92560768021	DUP-4	EPA 3010A	649478	EPA 6010D	649554
92560768022	EB-4	EPA 3010A	649478	EPA 6010D	649554
92560768023	B-92	EPA 3010A	649478	EPA 6010D	649554
92560768024	B-93	EPA 3010A	649478	EPA 6010D	649554
92560768025	B-97	EPA 3010A	649478	EPA 6010D	649554
92560768026	B-98	EPA 3010A	649478	EPA 6010D	649554
92560768027	DUP-5	EPA 3010A	649478	EPA 6010D	649554
92560768028	FB-5	EPA 3010A	649478	EPA 6010D	649554

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT
Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768029	EB-5	EPA 3010A	649478	EPA 6010D	649554
92560768030	B-83	EPA 3010A	649648	EPA 6010D	649927
92560768031	FB-6	EPA 3010A	649648	EPA 6010D	649927
92560768002	B-102D	EPA 3005A	648942	EPA 6020B	649044
92560768003	B-109D	EPA 3005A	648942	EPA 6020B	649044
92560768004	EB-3	EPA 3005A	648942	EPA 6020B	649044
92560768005	B-56	EPA 3005A	648942	EPA 6020B	649044
92560768006	B-88	EPA 3005A	648942	EPA 6020B	649044
92560768007	B-101D	EPA 3005A	648942	EPA 6020B	649044
92560768008	B-106D	EPA 3005A	648942	EPA 6020B	649044
92560768009	B-107D	EPA 3005A	648942	EPA 6020B	649044
92560768010	FB-3	EPA 3005A	648942	EPA 6020B	649044
92560768011	DUP-3	EPA 3005A	648942	EPA 6020B	649044
92560768012	B-63	EPA 3005A	648942	EPA 6020B	649044
92560768013	B-66	EPA 3005A	648942	EPA 6020B	649044
92560768014	B-77	EPA 3005A	648942	EPA 6020B	649044
92560768015	B-82	EPA 3005A	648942	EPA 6020B	649044
92560768016	B-104D	EPA 3005A	648942	EPA 6020B	649044
92560768017	B-108D	EPA 3005A	648942	EPA 6020B	649044
92560768018	B-111D	EPA 3005A	648942	EPA 6020B	649044
92560768019	B-115D	EPA 3005A	649183	EPA 6020B	649262
92560768020	B-120D	EPA 3005A	649183	EPA 6020B	649262
92560768021	DUP-4	EPA 3005A	649183	EPA 6020B	649262
92560768022	EB-4	EPA 3005A	649183	EPA 6020B	649262
92560768023	B-92	EPA 3005A	649183	EPA 6020B	649262
92560768024	B-93	EPA 3005A	649183	EPA 6020B	649262
92560768025	B-97	EPA 3005A	649183	EPA 6020B	649262
92560768026	B-98	EPA 3005A	649183	EPA 6020B	649262
92560768027	DUP-5	EPA 3005A	649183	EPA 6020B	649262
92560768028	FB-5	EPA 3005A	649183	EPA 6020B	649262
92560768029	EB-5	EPA 3005A	649183	EPA 6020B	649262
92560768030	B-83	EPA 3005A	649183	EPA 6020B	649262
92560768031	FB-6	EPA 3005A	649183	EPA 6020B	649262
92560768002	B-102D	EPA 7470A	649663	EPA 7470A	649674
92560768003	B-109D	EPA 7470A	649663	EPA 7470A	649674
92560768004	EB-3	EPA 7470A	649663	EPA 7470A	649674
92560768005	B-56	EPA 7470A	649663	EPA 7470A	649674
92560768006	B-88	EPA 7470A	649663	EPA 7470A	649674
92560768007	B-101D	EPA 7470A	649663	EPA 7470A	649674
92560768008	B-106D	EPA 7470A	649663	EPA 7470A	649674
92560768009	B-107D	EPA 7470A	649663	EPA 7470A	649674
92560768010	FB-3	EPA 7470A	649663	EPA 7470A	649674
92560768011	DUP-3	EPA 7470A	649663	EPA 7470A	649674
92560768012	B-63	EPA 7470A	649663	EPA 7470A	649674
92560768013	B-66	EPA 7470A	649663	EPA 7470A	649674
92560768014	B-77	EPA 7470A	649663	EPA 7470A	649674
92560768015	B-82	EPA 7470A	649663	EPA 7470A	649674

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768016	B-104D	EPA 7470A	649663	EPA 7470A	649674
92560768017	B-108D	EPA 7470A	649663	EPA 7470A	649674
92560768018	B-111D	EPA 7470A	649663	EPA 7470A	649674
92560768019	B-115D	EPA 7470A	649663	EPA 7470A	649674
92560768020	B-120D	EPA 7470A	649663	EPA 7470A	649674
92560768021	DUP-4	EPA 7470A	649663	EPA 7470A	649674
92560768022	EB-4	EPA 7470A	649667	EPA 7470A	649675
92560768023	B-92	EPA 7470A	649667	EPA 7470A	649675
92560768024	B-93	EPA 7470A	649667	EPA 7470A	649675
92560768025	B-97	EPA 7470A	649667	EPA 7470A	649675
92560768026	B-98	EPA 7470A	649667	EPA 7470A	649675
92560768027	DUP-5	EPA 7470A	649667	EPA 7470A	649675
92560768028	FB-5	EPA 7470A	649667	EPA 7470A	649675
92560768029	EB-5	EPA 7470A	649667	EPA 7470A	649675
92560768030	B-83	EPA 7470A	649667	EPA 7470A	649675
92560768031	FB-6	EPA 7470A	649667	EPA 7470A	649675
92560768002	B-102D	SM 2540C-2011	647701		
92560768003	B-109D	SM 2540C-2011	647701		
92560768004	EB-3	SM 2540C-2011	647701		
92560768005	B-56	SM 2540C-2011	648744		
92560768006	B-88	SM 2540C-2011	648323		
92560768007	B-101D	SM 2540C-2011	648323		
92560768008	B-106D	SM 2540C-2011	648323		
92560768009	B-107D	SM 2540C-2011	648323		
92560768010	FB-3	SM 2540C-2011	648323		
92560768011	DUP-3	SM 2540C-2011	648323		
92560768012	B-63	SM 2540C-2011	648323		
92560768013	B-66	SM 2540C-2011	648469		
92560768014	B-77	SM 2540C-2011	648469		
92560768015	B-82	SM 2540C-2011	648469		
92560768016	B-104D	SM 2540C-2011	648469		
92560768017	B-108D	SM 2540C-2011	648469		
92560768018	B-111D	SM 2540C-2011	648469		
92560768019	B-115D	SM 2540C-2011	648469		
92560768020	B-120D	SM 2540C-2011	648469		
92560768021	DUP-4	SM 2540C-2011	648469		
92560768022	EB-4	SM 2540C-2011	648469		
92560768023	B-92	SM 2540C-2011	648470		
92560768024	B-93	SM 2540C-2011	648470		
92560768025	B-97	SM 2540C-2011	648470		
92560768026	B-98	SM 2540C-2011	648470		
92560768027	DUP-5	SM 2540C-2011	648470		
92560768028	FB-5	SM 2540C-2011	648470		
92560768029	EB-5	SM 2540C-2011	648470		
92560768030	B-83	SM 2540C-2011	649122		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768031	FB-6	SM 2540C-2011	649122		
92560768002	B-102D	EPA 300.0 Rev 2.1 1993	647162		
92560768003	B-109D	EPA 300.0 Rev 2.1 1993	647165		
92560768004	EB-3	EPA 300.0 Rev 2.1 1993	647165		
92560768005	B-56	EPA 300.0 Rev 2.1 1993	647237		
92560768006	B-88	EPA 300.0 Rev 2.1 1993	647237		
92560768007	B-101D	EPA 300.0 Rev 2.1 1993	647237		
92560768008	B-106D	EPA 300.0 Rev 2.1 1993	647237		
92560768009	B-107D	EPA 300.0 Rev 2.1 1993	647237		
92560768010	FB-3	EPA 300.0 Rev 2.1 1993	647237		
92560768011	DUP-3	EPA 300.0 Rev 2.1 1993	647237		
92560768012	B-63	EPA 300.0 Rev 2.1 1993	647836		
92560768013	B-66	EPA 300.0 Rev 2.1 1993	647836		
92560768014	B-77	EPA 300.0 Rev 2.1 1993	647836		
92560768015	B-82	EPA 300.0 Rev 2.1 1993	647836		
92560768016	B-104D	EPA 300.0 Rev 2.1 1993	647836		
92560768017	B-108D	EPA 300.0 Rev 2.1 1993	647836		
92560768018	B-111D	EPA 300.0 Rev 2.1 1993	647836		
92560768019	B-115D	EPA 300.0 Rev 2.1 1993	647836		
92560768020	B-120D	EPA 300.0 Rev 2.1 1993	647836		
92560768021	DUP-4	EPA 300.0 Rev 2.1 1993	647836		
92560768022	EB-4	EPA 300.0 Rev 2.1 1993	647837		
92560768023	B-92	EPA 300.0 Rev 2.1 1993	647979		
92560768024	B-93	EPA 300.0 Rev 2.1 1993	647979		
92560768025	B-97	EPA 300.0 Rev 2.1 1993	647979		
92560768026	B-98	EPA 300.0 Rev 2.1 1993	647979		
92560768027	DUP-5	EPA 300.0 Rev 2.1 1993	647979		
92560768028	FB-5	EPA 300.0 Rev 2.1 1993	647979		
92560768029	EB-5	EPA 300.0 Rev 2.1 1993	647979		
92560768030	B-83	EPA 300.0 Rev 2.1 1993	648429		
92560768031	FB-6	EPA 300.0 Rev 2.1 1993	648429		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92560768



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/19/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

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

Section A
 Client Information: Required Project Information: Section B
 Invoice Information: Section C
 Page: 1 of 1

Client Name: Georgia Power - Coal Combustion Residuals
 Address: 2480 Warner Road, Atlanta, GA 30339
 Contact: jbrabham@southemco.com
 Project Name: Plant McDonough AP-2-314 Assessment
 Project #: 106849618
 State / Location: GA

Matrix	Code	Sample Type	Date	Time	Temp	Preservatives	Analyte Test	Residual Chlorine
One Character per hour. (A-Z, 0-9, /, -)								
Sample IDs must be unique								
B-62	G	G	9/9/2021	15:46		Unpreserved - Ice	App: <input checked="" type="checkbox"/> Heavy Metals Cl, F, SO4, TDS Radium 226/228	pH = 6.31
B-102D	G	G	9/10/2021	14:27		H2SO4		pH = 5.36
B-109D	G	G	9/10/2021	13:06		HCl		pH = 6.86
EB_3	G	G	9/10/2021	15:00		NaOH + Zn Acetate		pH = NA
						Na2S2O3		
						Methanol		
						Other		

Relinquished By / Application	Date	Time	Accepted By / Application	Date	Time	Sample Conditions
Jude W. DeWitt	9/10/21	11:40	David S. Hunter	9/10/21	17:40	Y N Y

TEMP in C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____
 Date Signed: 9/10/21

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/14/21 KPW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: THR214 Type of Ice: Wet Blue None

Cooler Temp:

3.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

B-100 present, even though it is crossed out on the COC.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

B-100 on separate project

Person contacted:

Daniela Herrera

Date/Time:

9/14/21 10:27

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Requested Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Lanier Road
 Atlanta, GA 30338
 Email: jbraden@southern.com
 Phone: (404) 508-7238
 Fax: (404) 508-7238
 Requested Due Date: 10 Day FAT

Section B Requested Project Information:

Report To: Jim Albritton
 Copy To: Collier
 Purchase Order #: Plant McDonough AP-2-3/4
 Project Name: Plant McDonough AP-2-3/4 Assessment
 Project #: 18594821

Section C Invoice Information:

Attention: ash@georgia-power.com
 Address: ash@georgia-power.com
 Company Name:
 Page Order:
 Page Project Manager: Keith Henning
 Page Profile #:
 Regulatory Agency:
 State/Location: GA

Page: 1 of 1

SAMPLE ID
 One Character per box
 (A-Z, 0-9, / -)
 Samples IDs must be unique

Analytical Request Document
 Date: _____
 Time: _____
 Location: _____

ITEM #	DATE	TIME	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-QRAB C-COMP)	# OF CONTAINERS	Preservatives						Residual Chlorine (Y/N)	
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3		Methanol
1	8-30	13:11	G	G	5	2	3	3					
2	8-30	14:35	G	G	5	2	3	3					
3	8-30	16:30	G	G	5	2	3	3					
4	8-30	18:30	G	G	5	2	3	3					
5	8-30	20:30	G	G	5	2	3	3					
6	8-30	22:30	G	G	5	2	3	3					
7	8-30	00:30	G	G	5	2	3	3					
8	8-30	02:30	G	G	5	2	3	3					
9	8-30	04:30	G	G	5	2	3	3					
10	8-30	06:30	G	G	5	2	3	3					
11	8-30	08:30	G	G	5	2	3	3					
12	8-30	10:30	G	G	5	2	3	3					
13	8-30	12:30	G	G	5	2	3	3					
14	8-30	14:30	G	G	5	2	3	3					

ADDITIONAL COMMENTS: Spill/Golberg 9-14-21 8:30 AM/1 Pool

ACCEPTED BY/ APLICATION: J. Eiroc

DATE: 8-14-21

TIME: 8:30

TEMP in C: _____

Received on Ice (Y/N): _____

Cooler Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

DATE SPEC: 8-14-21

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <u>GA Power</u>	Project #:
-------------------------------	---------------------------------	------------

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/15/2018

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: THR083 Type of Ice: Wet Blue None

Cooler Temp: 0.9 Correction Factor: Add/Subtract (°C) +0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 0.9

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Requested Client Information:
 Company: Georgia Power - Coal Contamination Remediation
 Address: 2480 Marner Road
 Atlanta, GA 30339
 Email: jleblanc@gepower.com
 Phone: (404) 506-7239
 Requested Due Date: 10 Day TAT

Section B
 Requested Project Information:
 Report To: John Abraham
 Copy To: Colter
 Purchase Order #: [Blank]
 Project Name: Plant McDonough AP-4-304
 Project #: 168940821
 Assessment

Section C
 Invoice Information:
 Attention: jleblanc@gepower.com
 Company Name:
 Address:
 Fax:
 Person Project Manager: Keith Herring
 Person Profile #:

Regulatory Agency:
 State/Location:
 GA

Matrix	Drinking Water Wastewater Surface Water Groundwater Air Sediment Sludge Other	Code	DW WW SW GW A S SL OTH	Matrix Code (see valid codes to left)	Sample Type (G=GRAB C=COMP)	Date	Time	Sample Temp at Collection	# of Containers	Preservatives	Analysis Test	Y/N	Residual Chlorine (Y/N)
ITEM #													

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST	Y/N	RESIDUAL CHLORINE (Y/N)
1	B-43	G	0142021	WT	12:45		5	2	3	App III/IV Total Metals	X	X
2	B-69	G	0142021	WT	11:02		3	2	3	Cl, F, SO4, TDS	X	X
3	B-77	G	0142021	WT	10:46		7	2	5	Radium 226/228	X	X
4	B-82	G	0142021	WT	12:55		5	2	3		X	X
5	B-104D	G	0142021	WT	10:45		5	2	3		X	X
6	B-108D	G	0142021	WT	11:25		5	2	3		X	X
7	B-111D	G	0142021	WT	15:07		5	2	3		X	X
8	B-13D	G	0142021	WT	15:00		5	2	3		X	X
9	B-138D	G	0142021	WT	14:59		5	2	3		X	X
10	DUP-4	G	0142021	WT	-		5	2	3		X	X
11	EB-4	G	0142021	WT	18:35		5	2	3		X	X
12												
13												
14												

ADDITIONAL COMMENTS

Requested by: [Blank] Date: 9-15-21 Time: 08:30

Accepted by: [Signature] Date: 9-15-21 Time: 8:38


Job: Waterspack / gw... Date Signed: 9-15-21

Temp in C: [Blank]

Received on ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <u>Georgia Powell</u>	Project #:
-------------------------------	---------------------------------------	------------

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/16/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.2 Correction Factor: Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

G A Power

Project #:

[Empty box for Project #]

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/17/20
COF

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.0

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company	Georgia Power - Coal Combustion Residuals
Address	2480 Maner Road Atlanta GA 30339
Email	jabraham@southemco.com
Phone	(404) 506-7239
Requested Due Date	10 Day TAT

Section B Required Project Information:

Report To:	Joju Abraham
Copy To:	Golden
Purchase Order #:	
Project Name:	Plant McDonough AP-2-3/4 Assessment
Project #:	166849621

Section C Invoice Information:

Attention:	scsrinvoices@southemco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

Page : 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL DL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=C-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analyses Test	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)												
										Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N		N	N	N	N	N		App IIIIV Total Metals	Cl F SO4 TDS	Radium 226/228									
1	B-83	WT	G		G	9/16/2021	11:37		5	2		3							X	X	X															pH = 5.58	
2	FB-6	WT	G		G	9/16/2021	11:55		5	2		3							X	X	X															pH = NA	
3																																					
4																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					
13																																					
14																																					
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS																							
				JW.../Sample		9-17-21	17:06	Charlotte/PA				9/17/21	17:06																								

Jude Waynespeck / JW... DATE Signed: 9-17-21

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

November 04, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2/3/4 ASSESS RADS
Pace Project No.: 92560765

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4 ASSESS RAD5
Pace Project No.: 92560765

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560765002	B-102D	Water	09/10/21 14:27	09/10/21 17:40
92560765003	B-109D	Water	09/10/21 13:05	09/10/21 17:40
92560765004	EB-3	Water	09/10/21 15:00	09/10/21 17:40
92560765005	B-56	Water	09/13/21 13:11	09/14/21 09:35
92560765006	B-88	Water	09/13/21 14:35	09/14/21 09:35
92560765007	B-101D	Water	09/13/21 15:52	09/14/21 09:35
92560765008	B-106D	Water	09/13/21 12:10	09/14/21 09:35
92560765009	B-107D	Water	09/13/21 17:35	09/14/21 09:35
92560765010	FB-3	Water	09/13/21 16:30	09/14/21 09:35
92560765011	DUP-3	Water	09/13/21 00:00	09/14/21 09:35
92560765012	B-63	Water	09/14/21 12:45	09/15/21 09:34
92560765013	B-66	Water	09/14/21 11:02	09/15/21 09:34
92560765014	B-77	Water	09/14/21 10:45	09/15/21 09:34
92560765015	B-82	Water	09/14/21 12:55	09/15/21 09:34
92560765016	B-104D	Water	09/14/21 16:45	09/15/21 09:34
92560765017	B-108D	Water	09/14/21 11:25	09/15/21 09:34
92560765018	B-111D	Water	09/14/21 15:37	09/15/21 09:34
92560765019	B-115D	Water	09/14/21 15:00	09/15/21 09:34
92560765020	B-120D	Water	09/14/21 14:50	09/15/21 09:34
92560765021	DUP-4	Water	09/14/21 00:00	09/15/21 09:34
92560765022	EB-4	Water	09/14/21 16:35	09/15/21 09:34
92560765023	B-92	Water	09/15/21 11:38	09/16/21 09:06
92560765024	B-93	Water	09/15/21 11:31	09/16/21 09:06
92560765025	B-97	Water	09/15/21 12:50	09/16/21 09:06
92560765026	B-98	Water	09/15/21 13:10	09/16/21 09:06
92560765027	DUP-5	Water	09/15/21 00:00	09/16/21 09:06
92560765028	FB-5	Water	09/15/21 13:25	09/16/21 09:06
92560765029	EB-5	Water	09/15/21 13:35	09/16/21 09:06
92560765030	B-83	Water	09/16/21 11:37	09/17/21 17:06
92560765031	FB-6	Water	09/16/21 11:55	09/17/21 17:06

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESS RADS
Pace Project No.: 92560765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560765002	B-102D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765003	B-109D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765004	EB-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765005	B-56	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765006	B-88	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765007	B-101D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765008	B-106D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765009	B-107D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765010	FB-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765011	DUP-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765012	B-63	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765013	B-66	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765014	B-77	EPA 9315	CLA	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESS RADS
Pace Project No.: 92560765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560765015	B-82	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765016	B-104D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765017	B-108D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765018	B-111D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765019	B-115D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765020	B-120D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765021	DUP-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765022	EB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765023	B-92	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560765024	B-93	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560765025	B-97	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560765026	B-98	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560765027	DUP-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765028	FB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765029	EB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765030	B-83	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765031	FB-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-102D **Lab ID: 92560765002** Collected: 09/10/21 14:27 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.642 ± 0.288 (0.352) C:98% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.487 (0.784) C:62% T:88%	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74 ± 0.775 (1.14)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-109D **Lab ID: 92560765003** Collected: 09/10/21 13:05 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.09 ± 0.717 (0.375) C:93% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	6.36 ± 1.39 (0.888) C:65% T:88%	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	9.45 ± 2.11 (1.26)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: EB-3 **Lab ID: 92560765004** Collected: 09/10/21 15:00 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.392 ± 0.246 (0.389) C:98% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.569 ± 0.383 (0.721) C:65% T:89%	pCi/L	10/04/21 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.961 ± 0.629 (1.11)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-56 **Lab ID: 92560765005** Collected: 09/13/21 13:11 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.330 ± 0.262 (0.457) C:97% T:NA	pCi/L	10/06/21 11:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.524 ± 0.359 (0.673) C:69% T:85%	pCi/L	10/04/21 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.854 ± 0.621 (1.13)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-88 **Lab ID: 92560765006** Collected: 09/13/21 14:35 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.437 ± 0.308 (0.537) C:95% T:NA	pCi/L	10/06/21 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.334 ± 0.339 (0.696) C:65% T:91%	pCi/L	10/04/21 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.771 ± 0.647 (1.23)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-101D **Lab ID: 92560765007** Collected: 09/13/21 15:52 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.330 ± 0.250 (0.421) C:94% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.47 ± 0.527 (0.740) C:64% T:92%	pCi/L	10/04/21 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.80 ± 0.777 (1.16)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-106D Lab ID: 92560765008 Collected: 09/13/21 12:10 Received: 09/14/21 09:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.159 ± 0.195 (0.397) C:92% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.466 ± 0.412 (0.835) C:63% T:93%	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.625 ± 0.607 (1.23)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-107D **Lab ID: 92560765009** Collected: 09/13/21 17:35 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.349 ± 0.264 (0.459) C:95% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.464 ± 0.388 (0.773) C:62% T:94%	pCi/L	10/04/21 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.813 ± 0.652 (1.23)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: FB-3 **Lab ID: 92560765010** Collected: 09/13/21 16:30 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0425 ± 0.180 (0.458) C:97% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.855 ± 0.434 (0.742) C:67% T:91%	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.898 ± 0.614 (1.20)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: DUP-3 **Lab ID: 92560765011** Collected: 09/13/21 00:00 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0608 ± 0.169 (0.413) C:94% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.346 ± 0.366 (0.761) C:68% T:95%	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.407 ± 0.535 (1.17)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-63 Lab ID: 92560765012 Collected: 09/14/21 12:45 Received: 09/15/21 09:34 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.981 ± 0.427 (0.562) C:92% T:NA	pCi/L	10/06/21 12:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.703 ± 0.469 (0.886) C:62% T:80%	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.68 ± 0.896 (1.45)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-66 **Lab ID: 92560765013** Collected: 09/14/21 11:02 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.152 ± 0.198 (0.423) C:96% T:NA	pCi/L	10/07/21 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.269 ± 0.385 (0.826) C:63% T:92%	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.421 ± 0.583 (1.25)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-77 Lab ID: 92560765014 Collected: 09/14/21 10:45 Received: 09/15/21 09:34 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.428 ± 0.234 (0.303) C:96% T:NA	pCi/L	10/07/21 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.189 ± 0.446 (0.989) C:64% T:92%	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.617 ± 0.680 (1.29)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-82 **Lab ID: 92560765015** Collected: 09/14/21 12:55 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.295 ± 0.225 (0.399) C:95% T:NA	pCi/L	10/07/21 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.739 ± 0.434 (0.802) C:65% T:95%	pCi/L	10/04/21 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03 ± 0.659 (1.20)	pCi/L	10/07/21 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-104D **Lab ID: 92560765016** Collected: 09/14/21 16:45 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.74 ± 0.667 (0.492) C:98% T:NA	pCi/L	10/07/21 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	6.86 ± 1.48 (0.938) C:64% T:88%	pCi/L	10/04/21 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	9.60 ± 2.15 (1.43)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-108D **Lab ID: 92560765017** Collected: 09/14/21 11:25 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.302 ± 0.225 (0.400) C:99% T:NA	pCi/L	10/07/21 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.615 ± 0.598 (1.23) C:62% T:61%	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.917 ± 0.823 (1.63)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-111D Lab ID: 92560765018 Collected: 09/14/21 15:37 Received: 09/15/21 09:34 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	2.47 ± 0.610 (0.392) C:96% T:NA	pCi/L	10/07/21 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.92 ± 0.599 (0.750) C:64% T:94%	pCi/L	10/04/21 15:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	4.39 ± 1.21 (1.14)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-115D **Lab ID: 92560765019** Collected: 09/14/21 15:00 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.07 ± 0.707 (0.450) C:98% T:NA	pCi/L	10/07/21 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	8.87 ± 1.80 (0.717) C:65% T:94%	pCi/L	10/04/21 15:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	11.9 ± 2.51 (1.17)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-120D Lab ID: 92560765020 Collected: 09/14/21 14:50 Received: 09/15/21 09:34 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.17 ± 0.404 (0.338) C:97% T:NA	pCi/L	10/07/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.51 ± 0.770 (0.948) C:61% T:87%	pCi/L	10/06/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.68 ± 1.17 (1.29)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: DUP-4 **Lab ID: 92560765021** Collected: 09/14/21 00:00 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0272 ± 0.161 (0.414) C:97% T:NA	pCi/L	10/07/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.976 ± 0.443 (0.738) C:69% T:85%	pCi/L	10/06/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00 ± 0.604 (1.15)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: EB-4 **Lab ID: 92560765022** Collected: 09/14/21 16:35 Received: 09/15/21 09:34 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0543 ± 0.174 (0.425) C:100% T:NA	pCi/L	10/07/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.392 ± 0.312 (0.616) C:74% T:89%	pCi/L	10/06/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.446 ± 0.486 (1.04)	pCi/L	10/07/21 15:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-92 Lab ID: 92560765023 Collected: 09/15/21 11:38 Received: 09/16/21 09:06 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.416 ± 0.278 (0.487) C:94% T:NA	pCi/L	10/06/21 08:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.977 ± 0.468 (0.822) C:74% T:88%	pCi/L	09/30/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.39 ± 0.746 (1.31)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-93 Lab ID: 92560765024 Collected: 09/15/21 11:31 Received: 09/16/21 09:06 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.372 ± 0.246 (0.402) C:88% T:NA	pCi/L	10/06/21 08:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.47 ± 0.523 (0.762) C:72% T:85%	pCi/L	09/30/21 11:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.84 ± 0.769 (1.16)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-97 Lab ID: 92560765025 Collected: 09/15/21 12:50 Received: 09/16/21 09:06 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.566 ± 0.289 (0.386) C:86% T:NA	pCi/L	10/06/21 08:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.54 ± 0.537 (0.770) C:71% T:88%	pCi/L	09/30/21 11:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.11 ± 0.826 (1.16)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-98 **Lab ID: 92560765026** Collected: 09/15/21 13:10 Received: 09/16/21 09:06 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.31 ± 0.460 (0.566) C:88% T:NA	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.889 ± 0.463 (0.838) C:72% T:89%	pCi/L	09/30/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.20 ± 0.923 (1.40)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: DUP-5 **Lab ID: 92560765027** Collected: 09/15/21 00:00 Received: 09/16/21 09:06 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.585 ± 0.304 (0.461) C:93% T:NA	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.12 ± 0.518 (0.897) C:71% T:84%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.822 (1.36)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: FB-5 **Lab ID: 92560765028** Collected: 09/15/21 13:25 Received: 09/16/21 09:06 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00298 ± 0.124 (0.353) C:89% T:NA	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.146 ± 0.351 (0.843) C:73% T:84%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.475 (1.20)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: EB-5 **Lab ID: 92560765029** Collected: 09/15/21 13:35 Received: 09/16/21 09:06 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0177 ± 0.162 (0.420) C:95% T:NA	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.338 ± 0.407 (0.863) C:72% T:85%	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.356 ± 0.569 (1.28)	pCi/L	10/07/21 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: B-83 **Lab ID: 92560765030** Collected: 09/16/21 11:37 Received: 09/17/21 17:06 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.207 ± 0.177 (0.311) C:95% T:NA	pCi/L	10/08/21 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.235 ± 0.368 (0.797) C:64% T:89%	pCi/L	10/07/21 14:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.442 ± 0.545 (1.11)	pCi/L	10/20/21 17:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Sample: FB-6 **Lab ID: 92560765031** Collected: 09/16/21 11:55 Received: 09/17/21 17:06 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.51 ± 0.852 (1.12) C:92% T:NA	pCi/L	10/19/21 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.301 ± 0.368 (0.928) C:61% T:89%	pCi/L	10/07/21 14:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.51 ± 1.22 (2.05)	pCi/L	10/20/21 17:24	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 466957

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765031

METHOD BLANK: 2255015

Matrix: Water

Associated Lab Samples: 92560765031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0260 ± 0.142 (0.353) C:102% T:NA	pCi/L	10/19/21 08:55	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465341

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

METHOD BLANK: 2247067

Matrix: Water

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.554 ± 0.366 (0.696) C:72% T:88%	pCi/L	09/30/21 11:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 466410

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765030, 92560765031

METHOD BLANK: 2252279

Matrix: Water

Associated Lab Samples: 92560765030, 92560765031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch:	465348	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765020, 92560765021, 92560765022

METHOD BLANK: 2247079 Matrix: Water

Associated Lab Samples: 92560765020, 92560765021, 92560765022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.625 ± 0.317 (0.544) C:74% T:91%	pCi/L	10/06/21 11:18	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465347

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

METHOD BLANK: 2247077

Matrix: Water

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch:	465350	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765020, 92560765021, 92560765022

METHOD BLANK: 2247083 Matrix: Water

Associated Lab Samples: 92560765020, 92560765021, 92560765022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0502 ± 0.146 (0.360) C:88% T:NA	pCi/L	10/07/21 08:30	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch:	465343	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765002, 92560765003, 92560765004

METHOD BLANK: 2247069 Matrix: Water

Associated Lab Samples: 92560765002, 92560765003, 92560765004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 466264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765030

METHOD BLANK: 2251638

Matrix: Water

Associated Lab Samples: 92560765030

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765002, 92560765003, 92560765004

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560765002, 92560765003, 92560765004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465342

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

METHOD BLANK: 2247068

Matrix: Water

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.189 ± 0.181 (0.337) C:97% T:NA	pCi/L	10/06/21 08:11	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESS RADS
Pace Project No.: 92560765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560765002	B-102D	EPA 9315	465344		
92560765003	B-109D	EPA 9315	465344		
92560765004	EB-3	EPA 9315	465344		
92560765005	B-56	EPA 9315	465347		
92560765006	B-88	EPA 9315	465347		
92560765007	B-101D	EPA 9315	465347		
92560765008	B-106D	EPA 9315	465347		
92560765009	B-107D	EPA 9315	465347		
92560765010	FB-3	EPA 9315	465347		
92560765011	DUP-3	EPA 9315	465347		
92560765012	B-63	EPA 9315	465347		
92560765013	B-66	EPA 9315	465347		
92560765014	B-77	EPA 9315	465347		
92560765015	B-82	EPA 9315	465347		
92560765016	B-104D	EPA 9315	465347		
92560765017	B-108D	EPA 9315	465347		
92560765018	B-111D	EPA 9315	465347		
92560765019	B-115D	EPA 9315	465347		
92560765020	B-120D	EPA 9315	465350		
92560765021	DUP-4	EPA 9315	465350		
92560765022	EB-4	EPA 9315	465350		
92560765023	B-92	EPA 9315	465342		
92560765024	B-93	EPA 9315	465342		
92560765025	B-97	EPA 9315	465342		
92560765026	B-98	EPA 9315	465342		
92560765027	DUP-5	EPA 9315	465342		
92560765028	FB-5	EPA 9315	465342		
92560765029	EB-5	EPA 9315	465342		
92560765030	B-83	EPA 9315	466264		
92560765031	FB-6	EPA 9315	466957		
92560765002	B-102D	EPA 9320	465343		
92560765003	B-109D	EPA 9320	465343		
92560765004	EB-3	EPA 9320	465343		
92560765005	B-56	EPA 9320	465345		
92560765006	B-88	EPA 9320	465345		
92560765007	B-101D	EPA 9320	465345		
92560765008	B-106D	EPA 9320	465345		
92560765009	B-107D	EPA 9320	465345		
92560765010	FB-3	EPA 9320	465345		
92560765011	DUP-3	EPA 9320	465345		
92560765012	B-63	EPA 9320	465345		
92560765013	B-66	EPA 9320	465345		
92560765014	B-77	EPA 9320	465345		
92560765015	B-82	EPA 9320	465345		
92560765016	B-104D	EPA 9320	465345		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESS RADS
Pace Project No.: 92560765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560765017	B-108D	EPA 9320	465345		
92560765018	B-111D	EPA 9320	465345		
92560765019	B-115D	EPA 9320	465345		
92560765020	B-120D	EPA 9320	465348		
92560765021	DUP-4	EPA 9320	465348		
92560765022	EB-4	EPA 9320	465348		
92560765023	B-92	EPA 9320	465341		
92560765024	B-93	EPA 9320	465341		
92560765025	B-97	EPA 9320	465341		
92560765026	B-98	EPA 9320	465341		
92560765027	DUP-5	EPA 9320	465341		
92560765028	FB-5	EPA 9320	465341		
92560765029	EB-5	EPA 9320	465341		
92560765030	B-83	EPA 9320	466410		
92560765031	FB-6	EPA 9320	466410		
92560765002	B-102D	Total Radium Calculation	467213		
92560765003	B-109D	Total Radium Calculation	467213		
92560765004	EB-3	Total Radium Calculation	467213		
92560765005	B-56	Total Radium Calculation	467213		
92560765006	B-88	Total Radium Calculation	467213		
92560765007	B-101D	Total Radium Calculation	467213		
92560765008	B-106D	Total Radium Calculation	467213		
92560765009	B-107D	Total Radium Calculation	467213		
92560765010	FB-3	Total Radium Calculation	467213		
92560765011	DUP-3	Total Radium Calculation	467213		
92560765012	B-63	Total Radium Calculation	467213		
92560765013	B-66	Total Radium Calculation	467213		
92560765014	B-77	Total Radium Calculation	467213		
92560765015	B-82	Total Radium Calculation	467213		
92560765016	B-104D	Total Radium Calculation	467218		
92560765017	B-108D	Total Radium Calculation	467218		
92560765018	B-111D	Total Radium Calculation	467218		
92560765019	B-115D	Total Radium Calculation	467218		
92560765020	B-120D	Total Radium Calculation	467218		
92560765021	DUP-4	Total Radium Calculation	467218		
92560765022	EB-4	Total Radium Calculation	467218		
92560765023	B-92	Total Radium Calculation	467224		
92560765024	B-93	Total Radium Calculation	467224		
92560765025	B-97	Total Radium Calculation	467224		
92560765026	B-98	Total Radium Calculation	467224		
92560765027	DUP-5	Total Radium Calculation	467224		
92560765028	FB-5	Total Radium Calculation	467224		
92560765029	EB-5	Total Radium Calculation	467224		
92560765030	B-83	Total Radium Calculation	469110		
92560765031	FB-6	Total Radium Calculation	469112		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESS RADS
Pace Project No.: 92560765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92560768



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 9/19/20*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

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

Section A		Section B		Section C	
Client Information: Client: Georgia Power - Coal Combustion Residuals Address: 2480 Warner Road Atlanta, GA 30339 Contact: jbrubaker@southemco.com Phone: (404) 505-7239 Email: jbrubaker@southemco.com		Required Project Information: Report To: Julie Abraham Copy To: Golder Purchase Order #: Project Name: Plant McDonough AP-2-314 Assessment Project #: 105849515 Issue Date: 10 Day TAT		Invoice Information: Attention: samira@scs.com Company Name: Address: State / Location: GA Project Manager: Kenneth Helling Price Code: #	

NO	MATRIX CODE	SAMPLE TYPE (IG=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyte Test				Residual Chlorine (Y/N)	pH
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App	PHY		
1	B-62	G	9/10/21	15:46		5	2	3						X	X	X	X	pH = 6.31
2	B-102D	G	9/10/2021	14:27		5	2	3						X	X	X	X	pH = 5.36
3	B-109D	G	9/10/2021	13:05		5	2	3						X	X	X	X	pH = 6.86
4	EB_3	G	9/10/2021	15:00		5	2	3						X	X	X	X	pH = NA

ADDITIONAL COMMENTS: SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique		RELINQUISHED BY: APPLICATOR: Julie Abraham DATE: 9/10/21 TIME: 11:40		ACCEPTED BY: APPLICATOR: Donald Hunter DATE: 9/10/21 TIME: 17:40	
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	DATE Signed: 9/10/21	DATE Signed: 9/10/21

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/14/21 KPW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: THR214 Type of Ice: Wet Blue None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

B-100 present, even though it is crossed out on the COC.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

B-100 on separate project

Person contacted:

Daniela Herrera

Date/Time:

9/14/21 10:27

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:

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



Section A Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Lanier Road
 Atlanta, GA 30339
 Email: jpkramer@gaoh.com
 Phone: (404) 508-7238
 Fax:
 Requested Date: 10 Day FAT

Section B Requested Project Information:
 Report To: Jim Albrham
 Copy To: Carter
 Purchas Order #:
 Project Name: Plant McDonough AP-2-3/4
 Assessment:
 Project #: 16948821

Section C Invoice Information:
 Attention: ash@rockanalytics.com
 Address:
 Company Name:
 Invoice #:
 Date:
 Payment Terms:
 Regulatory Agency:
 State / Location:
 GA

Page: 1 **Of** 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs must be unique	ANALYTE Drope Yield Wt Drope Yield Wt Product Wt Drope Yield Wt As Wt Other Wt	CODE PM WV PL CL WP AS OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-QRAB C-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION																							
								# OF CONTAINERS	Preservatives								Analyses Test														
									Unpreserved - Ice	H2SO4	HNOS + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App IIRV Total Metals	Cl, F, SO4, TDS	Radium 226/228												
1	B-96			G	G	8/13/2021	13:11	5	2	3							X	X	X												
2	B-98			G	G	8/13/2021	14:35	5	2	3							X	X	X												
3	B-100			G	G	8/13/2021	16:30	5	2	3							X	X	X												
4	B-101D			G	G	8/13/2021	15:32	5	2	3							X	X	X												
5	B-108D			G	G	8/13/2021	12:10	5	2	3							X	X	X												
6	B-107D			G	G	8/13/2021	17:35	7	2	5							X	X	X												
7	FB-3			G	G	8/13/2021	18:30	5	2	3							X	X	X												
8	DU-3			G	G	8/13/2021	-	5	2	3							X	X	X												
9																															
10																															
11																															
12																															
13																															
14																															

ADDITIONAL COMMENTS:
 Spin / collect 9-14-21 08:46
 Eirid 9-14-21 09:30
 T. Eirid

DATE SPECIFIED: 09-14-21

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <u>GA Power</u>	Project #:
-------------------------------	---------------------------------	------------

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/15/2018

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: THR083 Type of Ice: Wet Blue None

Cooler Temp: 0.9 Correction Factor: Add/Subtract (°C) +0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 0.9

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION


Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt	Client Name: <u>Georgia Power</u>	Project #:
-------------------------------	--------------------------------------	------------

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/16/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.2 Correction Factor: ± 0.1
Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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

Section A
 Client Information: **Georgia Power - Coal Combustion Residuals**
 2480 Manor Road
 Atlanta, GA 30338
 (404) 508-7238
 10 Day TAT

Section B
 Requested Project Information:
 Report To: **John Abraham**
 Copy To: **Golden**
 Project Name: **Pearl McCordough AP-2, 3/4 Assessment**
 Project #: **16684821**

Section C
 Invoice Information:
 Address: **2480 Manor Road, Atlanta, GA 30338**
 Company Name:
 Project Manager: **Kevin Henning**
 Project Profile #:

Section D
 Regulatory Agency:
 State Location: **GA**

#	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST				Residual Chlorine (Y/N)	pH
					Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App IIMV Total Metals	CLF, SO4, TDS	Radium 226/228		
1	B-82	9/15/2021	11:38		7	2	5						X	X	X	X	pH = 4.55
2	B-83	9/15/2021	11:31		5	2	3						X	X	X	X	pH = 4.60
3	B-87	9/15/2021	12:40		5	2	3						X	X	X	X	pH = 8.49
4	B-88	9/15/2021	13:10		5	2	3						X	X	X	X	pH = 8.40
5	DUP-3	9/15/2021	-		5	2	3						X	X	X	X	pH = N/A
6	FB-5	9/15/2021	13:25		5	2	3						X	X	X	X	pH = N/A
7	EB-5	9/15/2021	13:35		5	2	3						X	X	X	X	pH = N/A

ADDITIONAL COMMENTS
 PREPARED BY / APPROVAL: **SM.../SM.../M.B.H.**
 DATE: **9-16-21**
 TIME: **09:23**
 ACCEPTED BY / APPROVAL: **M.B.H.**
 DATE: **9-16-21**
 TIME: **8:24**
 SAMPLE CONDITIONS:
 Received on Ice (Y/N): **Y**
 Custody Sealed Cooler (Y/N): **N**
 Samples Intact (Y/N): **Y**

TEMP in C: **5.2**

DATE signed: **9-16-21**
 June WAGNER/SM.../SM...



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

G A Power

Project #:

[Empty box for Project #]

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/17/20
COF

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.0

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/1/2021
Worklist: 62850
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247073
MB concentration:	0.306
MB 2 Sigma CSU:	0.283
MB MDC:	0.572
MB Numerical Performance Indicator:	2.12
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62850	Y
Count Date:	10/4/2021	LCS62850
Spike I.D.:	21-029	10/4/2021
Decay Corrected Spike Concentration (pCi/mL):	37.973	21-029
Volume Used (mL):	0.10	37.973
Aliquot Volume (L, g, F):	0.805	0.10
Target Conc. (pCi/L, g, F):	4.716	0.816
Uncertainty (Calculated):	0.231	4.653
Result (pCi/L, g, F):	5.361	0.228
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.173	4.280
Numerical Performance Indicator:	1.06	0.992
Percent Recovery:	113.68%	-0.72
Status vs Numerical Indicator:	N/A	91.98%
Status vs Recovery:	Pass	N/A
Upper % Recovery Limits:	135%	Pass
Lower % Recovery Limits:	60%	135%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62850
Duplicate Sample I.D.:	LCS62850
Sample Result (pCi/L, g, F):	5.361
Sample Duplicate Result (pCi/L, g, F):	1.173
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.992
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.380
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.11%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

10/5/21

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Relatio
CMM*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/1/2021
Worklist: 62852
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247079
MB concentration:	0.625
MB 2 Sigma CSU:	0.317
MB MDC:	0.544
MB Numerical Performance Indicator:	3.86
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	10/6/2021	LCSD62852	10/6/2021
Spike I.D.:	21-029	LCSD62852	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.949		37.949
Volume Used (mL):	0.20		0.20
Aliquot Volume (L, g, F):	0.809		0.809
Target Conc. (pCi/L, g, F):	9.350		9.379
Uncertainty (Calculated):	0.460		0.460
Result (pCi/L, g, F):	8.389		7.162
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.704		1.451
Numerical Performance Indicator:	-1.07		-2.86
Percent Recovery:	89.73%		76.36%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limits:	135%		135%
Lower % Recovery Limits:	60%		60%

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCSD62852	
Duplicate Sample I.D.:	LCSD62852	
Sample Result (pCi/L, g, F):	6.389	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.704	
Sample Duplicate Result (pCi/L, g, F):	7.162	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.451	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.075	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.10%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MS Spike Uncertainty (calculated): Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result: Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Initial MW

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 10/14/2021
Worklist: 63017
Matrix: DW

Method Blank Assessment	
MB Sample ID	2255015
MB concentration:	0.026
MIB Counting Uncertainty:	0.142
MB MDC:	0.353
MB Numerical Performance Indicator:	0.36
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		Y
	LCS63017	LCS63017	
Count Date:	10/19/2021	10/19/2021	
Spike ID:	19-033	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033	
Volume Used (mL):	0.10	0.10	
Alliquot Volume (L, g, F):	0.503	0.502	
Target Conc. (pCi/L, g, F):	4.780	4.792	
Uncertainty (Calculated):	0.057	0.058	
Result (pCi/L, g, F):	5.814	5.134	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.601	0.572	
Numerical Performance Indicator:	3.36	1.17	
Percent Recovery:	121.64%	107.13%	
Status vs Numerical Indicator:	N/A	N/A	
Status vs Recovery:	Pass	Pass	
Upper % Recovery Limits:	125%	125%	
Lower % Recovery Limits:	75%	75%	

Duplicate Sample Assessment	LCS (Y or N)?		Y
	LCS63017	LCS63017	
Sample ID:	92561311006	92561311006DUP	
Duplicate Sample ID:	92561311006DUP	92561311006DUP	
Sample Result (pCi/L, g, F):	5.814	0.126	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.601	0.134	
Sample Duplicate Result (pCi/L, g, F):	5.134	0.107	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.572	0.111	
Are sample and/or duplicate results below RL?	NO	See Below #	
Duplicate Numerical Performance Indicator:	1.607	0.214	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.68%	16.30%	
Duplicate Status vs Numerical Indicator:	N/A	N/A	
Duplicate Status vs RPD:	Pass	Pass	
% RPD Limit:	25%	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/19/2021

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

10/20/2021

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 10/5/2021
Worklist: 62912
Matrix: DW

Method Blank Assessment	
MB Sample ID	2251638
MB concentration:	0.284
M/B Counting Uncertainty:	0.225
MB MDC:	0.421
MB Numerical Performance Indicator:	2.47
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62912	YCS62912
Count Date:	10/8/2021	10/8/2021
Spike ID:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.513
Target Conc. (pCi/L, g, F):	4.762	4.681
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	3.783	4.467
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.618	0.667
Numerical Performance Indicator:	-3.09	-0.63
Percent Recovery:	79.43%	95.43%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS/D (Y or N)?	
	LCS62912	YCS62912
Sample ID:	92561675014	92561675014DUP
Duplicate Sample ID:	92561675014DUP	92561675014DUP
Sample Result (pCi/L, g, F):	3.783	0.346
Sample Result Counting Uncertainty (pCi/L, g, F):	0.618	0.147
Sample Duplicate Result (pCi/L, g, F):	4.467	0.199
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.667	0.131
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	-1.476	1.469
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.29%	54.06%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepared due to unacceptable precision N/A

UAM 10/20/21

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UAM 10/20/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (Calculated): MSD Spike Uncertainty (Calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: CLA
Date: 9/28/2021
Worklist: 62851
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247077
MB concentration:	-0.028
M/B Counting Uncertainty:	0.217
MB MDC:	0.589
MB Numerical Performance Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS# (Y or N)?	
	Y	N
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.508
Target Conc. (pCi/L, g, F):	4.792	4.734
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	4.037	4.418
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.623	0.646
Numerical Performance Indicator:	-2.37	-0.95
Percent Recovery:	84.25%	93.33%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	Pass	Pass
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	Sample I.D.:	92560765014	92560765014DUP
Duplicate Sample I.D.:	LCS62851	LCS62851	LCS62851
Duplicate Result (pCi/L, g, F):	4.037	4.037	4.037
Sample Result Counting Uncertainty (pCi/L, g, F):	0.623	0.623	0.623
Sample Duplicate Result (pCi/L, g, F):	4.418	4.418	4.418
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.646	0.646	0.646
Are sample and/or duplicate results below RL?	NO	NO	NO
Duplicate Numerical Performance Indicator:	-0.832	-0.832	-0.832
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.22%	10.22%	10.22%
Duplicate Status vs Numerical Indicator:	N/A	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass	Pass
% RPD Limit:	25%	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

L/MDCs N/A

10/7/21
DW

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Matrix Spike Duplicate Numerical Performance Indicator:</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

10/17/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/28/2021
Worklist: 62849
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247072
MB concentration:	0.007
M/B Counting Uncertainty:	0.168
MB MDC:	0.443
MB Numerical Performance Indicator:	0.08
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62849	LCS62849
Count Date:	10/6/2021	10/6/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.502
Target Conc. (pCi/L, g, F):	4.779	4.791
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.249	5.218
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.691	0.720
Numerical Performance Indicator:	1.33	1.16
Percent Recovery:	109.83%	108.93%
Status vs Numerical Indicator:	Pass	N/A
Upper % Recovery Limits:	125%	Pass
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS/D (Y or N)?	
	LCS62849	LCS62849
Sample I.D.:	92560766017	92560766017
Duplicate Sample I.D.:	92560766017DUP	92560766017DUP
Sample Result (pCi/L, g, F):	0.383	0.383
Sample Duplicate Result (pCi/L, g, F):	0.691	0.227
Sample Result Counting Uncertainty (pCi/L, g, F):	0.174	0.174
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.199	0.199
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	0.060	0.060
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.82%	0.82%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch cannot be re-prepped due to unacceptable precision. N/A
SAM 10/10/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):</p> <p>Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>

12/10/21
SAM 10/10/21

Quality Control Sample Performance Assessment



Analyst: *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226
Analyst: SLC
Date: 9/27/2021
Worklist: 62847
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247068
MB concentration:	0.189
M/B Counting Uncertainty:	0.179
MB MDC:	0.337
MB Numerical Performance Indicator:	2.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS62847	Y
Count Date:	10/6/2021	LCS62847
Spike ID:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.507
Target Conc. (pCi/L, g, F):	4.719	4.738
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.606	4.636
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.693	0.670
Numerical Performance Indicator:	-0.32	-0.30
Percent Recovery:	97.60%	97.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limit:	125%	125%
Lower % Recovery Limit:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS62847	Y
Sample ID:	92560765023	92560765023
Duplicate Sample ID:	92560765023DUP	92560765023DUP
Sample Result (pCi/L, g, F):	4.606	0.416
Sample Duplicate Result (pCi/L, g, F):	0.693	0.272
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.636	0.488
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.670	0.269
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.061	-0.372
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.27%	16.04%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample ID: Sample MS ID: Sample MSD ID: Spike ID:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limit: MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample ID: Sample MS ID: Sample MSD ID: Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

10/6/21

Cheryl

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/5/2021
Worklist: 62922
Matrix: WT

Method Blank Assessment	
MB Sample ID	2252279
MB concentration:	0.420
MB 2 Sigma CSU:	0.367
MB MDC:	0.738
MB Numerical Performance Indicator:	2.25
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS62922	10/7/2021
Spike I.D.:		10/7/2021	21-029
Decay Corrected Spike Concentration (pCi/mL):		37.936	37.936
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.810	0.810
Target Conc. (pCi/L, g, F):		4.684	4.683
Uncertainty (Calculated):		0.229	0.229
Result (pCi/L, g, F):		4.993	5.479
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		1.158	1.201
Numerical Performance Indicator:		0.51	1.27
Percent Recovery:		106.61%	116.98%
Status vs Numerical Indicator:		N/A	N/A
Status vs Recovery:		Pass	Pass
Upper % Recovery Limits:		135%	135%
Lower % Recovery Limits:		60%	60%

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.	
Sample I.D.:	LCS62922		
Duplicate Sample I.D.:	LCS62922		
Sample Result (pCi/L, g, F):	4.993		
Sample Duplicate Result (pCi/L, g, F):	1.158		
Sample Result 2 Sigma CSU (pCi/L, g, F):	5.479		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.201		
Are sample and/or duplicate results below RL?		NO	
Duplicate Numerical Performance Indicator:		-0.571	
Duplicate (Percent Recoveries) Duplicate RPD:		9.28%	
Duplicate Status vs Numerical Indicator:		Pass	
Duplicate Status vs RPD:		Pass	
% RPD Limit:		36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

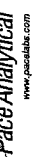
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Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate (Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/1/2021
Worklist: 62848
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247069
MB concentration:	0.209
MB 2 Sigma CSU:	0.287
MB MDC:	0.612
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62848	LCS062848
Count Date:	10/4/2021	10/4/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.973	37.973
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.812
Target Conc. (pCi/L, g, F):	4.703	4.676
Uncertainty (Calculated):	0.230	0.229
Result (pCi/L, g, F):	3.772	4.931
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.892	1.094
Numerical Performance Indicator:	-1.98	0.45
Percent Recovery:	80.20%	105.45%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62848
Duplicate Sample I.D.:	LCS062848
Sample Result (pCi/L, g, F):	3.772
Sample Duplicate Result (pCi/L, g, F):	0.892
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.931
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.094
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.609
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/28/2021
Worklist: 62846
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247067
MB concentration:	0.554
M/B 2 Sigma CSU:	0.366
MB MDC:	0.696
MB Numerical Performance Indicator:	2.96
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62846	Y
Count Date:	9/30/2021	LCS62846
Spike I.D.:	21-029	9/30/2021
Decay Corrected Spike Concentration (pCi/mL):	38.024	21-029
Volume Used (mL):	0.10	38.024
Aliquot Volume (L, g, F):	0.813	0.10
Target Conc. (pCi/L, g, F):	4.874	0.807
Uncertainty (Calculated):	0.229	4.710
Result (pCi/L, g, F):	5.375	5.752
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.201	1.275
Numerical Performance Indicator:	1.12	1.58
Percent Recovery:	114.99%	122.14%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS62846
Duplicate Sample I.D.:	LCS62846
Sample Result (pCi/L, g, F):	5.375
Sample Duplicate Result (pCi/L, g, F):	1.201
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.752
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.275
Ave sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.422
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.03%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560139001	B-117D	Water	09/08/21 16:15	09/09/21 08:45
92560139002	B-118	Water	09/08/21 13:35	09/09/21 08:45
92560139003	B-119D	Water	09/08/21 15:17	09/09/21 08:45
92560139004	B-116D	Water	09/09/21 13:53	09/10/21 17:40

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560139001	B-117D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560139002	B-118	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560139003	B-119D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560139004	B-116D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

Sample: B-117D		Lab ID: 92560139001		Collected: 09/08/21 16:15		Received: 09/09/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/09/21 10:18		
pH	6.00	Std. Units			1		09/09/21 10:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.3	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:14	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:14	7440-47-3	
Cobalt	0.00043J	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:14	7439-92-1	
Lithium	0.0069J	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 11:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	152	mg/L	10.0	10.0	1		09/15/21 18:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.0	mg/L	1.0	0.60	1		09/13/21 00:45	16887-00-6	
Fluoride	0.058J	mg/L	0.10	0.050	1		09/13/21 00:45	16984-48-8	
Sulfate	31.1	mg/L	1.0	0.50	1		09/13/21 00:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

Sample: B-118		Lab ID: 92560139002		Collected: 09/08/21 13:35	Received: 09/09/21 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/09/21 10:18		
pH	6.01	Std. Units			1		09/09/21 10:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.0	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:19	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:19	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:19	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:19	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 11:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	65.0	mg/L	10.0	10.0	1		09/15/21 18:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.0	mg/L	1.0	0.60	1		09/13/21 01:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/21 01:00	16984-48-8	
Sulfate	0.99J	mg/L	1.0	0.50	1		09/13/21 01:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

Sample: B-119D		Lab ID: 92560139003		Collected: 09/08/21 15:17		Received: 09/09/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/09/21 10:19		
pH	6.88	Std. Units			1		09/09/21 10:19		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	20.2	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:57	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00087J	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:25	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:25	7440-38-2	
Barium	0.0080	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:25	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:25	7440-47-3	
Cobalt	0.00077J	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:25	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:25	7439-93-2	
Molybdenum	0.022	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 11:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	191	mg/L	10.0	10.0	1		09/15/21 18:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		09/13/21 01:16	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		09/13/21 01:16	16984-48-8	
Sulfate	76.2	mg/L	1.0	0.50	1		09/13/21 01:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

Sample: B-116D		Lab ID: 92560139004		Collected: 09/09/21 13:53		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 08:34		
pH	6.02	Std. Units			1		09/13/21 08:34		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.9	mg/L	1.0	0.12	1	09/17/21 11:09	09/17/21 19:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/17/21 11:11	09/17/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:17	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/17/21 11:11	09/17/21 16:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/17/21 11:11	09/17/21 16:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/17/21 11:11	09/17/21 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/17/21 11:11	09/17/21 16:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/17/21 11:11	09/17/21 16:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/17/21 11:11	09/17/21 16:17	7439-92-1	
Lithium	0.0055J	mg/L	0.030	0.00073	1	09/17/21 11:11	09/17/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/17/21 11:11	09/17/21 16:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/17/21 11:11	09/17/21 16:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/17/21 11:11	09/17/21 16:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	93.0	mg/L	10.0	10.0	1		09/15/21 18:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		09/15/21 06:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 06:23	16984-48-8	
Sulfate	0.73J	mg/L	1.0	0.50	1		09/15/21 06:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch: 646610	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560139001, 92560139002, 92560139003

METHOD BLANK: 3391819 Matrix: Water

Associated Lab Samples: 92560139001, 92560139002, 92560139003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/21 14:48	

LABORATORY CONTROL SAMPLE: 3391820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391821 3391822

Parameter	Units	92558259010		3391821		3391822		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Calcium	mg/L	1.4	1	1	1	2.5	2.5	106	109	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

QC Batch: 648035	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
Associated Lab Samples: 92560139004	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3398813 Matrix: Water
Associated Lab Samples: 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/17/21 18:21	

LABORATORY CONTROL SAMPLE: 3398814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398815 3398816

Parameter	Units	3398815		3398816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560138002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	18.3	1	1	18.8	19.3	57	102	75-125	2	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

QC Batch: 646612 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560139001, 92560139002, 92560139003

METHOD BLANK: 3391827 Matrix: Water
Associated Lab Samples: 92560139001, 92560139002, 92560139003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/14/21 17:25	
Arsenic	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Barium	mg/L	ND	0.0050	0.00067	09/14/21 17:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/21 17:25	
Boron	mg/L	ND	0.040	0.0086	09/14/21 17:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/21 17:25	
Chromium	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/21 17:25	
Lead	mg/L	ND	0.0010	0.00089	09/14/21 17:25	
Lithium	mg/L	ND	0.030	0.00073	09/14/21 17:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/21 17:25	
Selenium	mg/L	ND	0.0050	0.0014	09/14/21 17:25	
Thallium	mg/L	ND	0.0010	0.00018	09/14/21 17:25	

LABORATORY CONTROL SAMPLE: 3391828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559417001	Result	Conc.	Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Parameter	Units	3391829		3391830		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92559417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	98	99	75-125	0	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.097	0.099	97	98	75-125	2	20	
Boron	mg/L	1.2	1	1	2.3	2.5	92	116	75-125	10	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.0014J	0.1	0.1	0.099	0.10	98	102	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Selenium	mg/L	0.021	0.1	0.1	0.12	0.12	100	101	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

QC Batch: 648036 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560139004

METHOD BLANK: 3398822 Matrix: Water
Associated Lab Samples: 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/21 15:37	
Arsenic	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Barium	mg/L	ND	0.0050	0.00067	09/17/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/21 15:37	
Boron	mg/L	ND	0.040	0.0086	09/17/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/21 15:37	
Chromium	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/21 15:37	
Lead	mg/L	ND	0.0010	0.00089	09/17/21 15:37	
Lithium	mg/L	ND	0.030	0.00073	09/17/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/21 15:37	
Selenium	mg/L	ND	0.0050	0.0014	09/17/21 15:37	
Thallium	mg/L	ND	0.0010	0.00018	09/17/21 15:37	

LABORATORY CONTROL SAMPLE: 3398823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398824 3398825

Parameter	Units	92560138002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Parameter	Units	3398824		3398825		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92560138002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.099	0.1	0.1	0.21	0.20	114	102	75-125	6	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.096	91	96	75-125	5	20		
Boron	mg/L	0.065	1	1	0.97	1.0	91	97	75-125	6	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Cobalt	mg/L	0.0064	0.1	0.1	0.11	0.10	105	98	75-125	7	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20		
Lithium	mg/L	0.0091J	0.1	0.1	0.10	0.11	94	99	75-125	5	20		
Molybdenum	mg/L	0.025	0.1	0.1	0.13	0.12	101	99	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	92	95	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

QC Batch: 648334 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

METHOD BLANK: 3400299 Matrix: Water
Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 10:38	

LABORATORY CONTROL SAMPLE: 3400300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400301 3400302

Parameter	Units	92560635001		3400302		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0023	92	91	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch: 647027

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

METHOD BLANK: 3393790

Matrix: Water

Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/15/21 18:56	

LABORATORY CONTROL SAMPLE: 3393791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3393792

Parameter	Units	92560138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	78.0	4	10	

SAMPLE DUPLICATE: 3393793

Parameter	Units	92560281005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	139	4	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

QC Batch: 646662 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560139001, 92560139002, 92560139003

METHOD BLANK: 3391993 Matrix: Water
Associated Lab Samples: 92560139001, 92560139002, 92560139003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/21 19:51	
Fluoride	mg/L	ND	0.10	0.050	09/12/21 19:51	
Sulfate	mg/L	ND	1.0	0.50	09/12/21 19:51	

LABORATORY CONTROL SAMPLE: 3391994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391995 3391996

Parameter	Units	92560743001		3391995		3391996		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	298	298	50	50	346	344	96	91	90-110	1	10
Fluoride	mg/L	13.7	13.7	2.5	2.5	21.8	21.5	326	310	90-110	2	10 M1
Sulfate	mg/L	702	702	50	50	717	721	28	36	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391997 3391998

Parameter	Units	92560743011		3391997		3391998		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	66.1	66.1	50	50	144	145	156	158	90-110	1	10 M1
Fluoride	mg/L	3.4	3.4	2.5	2.5	1.4	1.4	-81	-79	90-110	4	10 M1
Sulfate	mg/L	82.0	82.0	50	50	131	131	98	98	90-110	0	10

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QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

QC Batch: 647162 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560139004

METHOD BLANK: 3394748 Matrix: Water
Associated Lab Samples: 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10	M1	
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10	M1	
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10		
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10	M1	
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10	M1	
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10	M1	
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	90-110	2	10	M1	

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QUALIFIERS

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH PIEZOMETERS
Pace Project No.: 92560139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560139001	B-117D				
92560139002	B-118				
92560139003	B-119D				
92560139004	B-116D				
92560139001	B-117D	EPA 3010A	646610	EPA 6010D	646635
92560139002	B-118	EPA 3010A	646610	EPA 6010D	646635
92560139003	B-119D	EPA 3010A	646610	EPA 6010D	646635
92560139004	B-116D	EPA 3010A	648035	EPA 6010D	648116
92560139001	B-117D	EPA 3005A	646612	EPA 6020B	646637
92560139002	B-118	EPA 3005A	646612	EPA 6020B	646637
92560139003	B-119D	EPA 3005A	646612	EPA 6020B	646637
92560139004	B-116D	EPA 3005A	648036	EPA 6020B	648158
92560139001	B-117D	EPA 7470A	648334	EPA 7470A	648431
92560139002	B-118	EPA 7470A	648334	EPA 7470A	648431
92560139003	B-119D	EPA 7470A	648334	EPA 7470A	648431
92560139004	B-116D	EPA 7470A	648334	EPA 7470A	648431
92560139001	B-117D	SM 2540C-2011	647027		
92560139002	B-118	SM 2540C-2011	647027		
92560139003	B-119D	SM 2540C-2011	647027		
92560139004	B-116D	SM 2540C-2011	647027		
92560139001	B-117D	EPA 300.0 Rev 2.1 1993	646662		
92560139002	B-118	EPA 300.0 Rev 2.1 1993	646662		
92560139003	B-119D	EPA 300.0 Rev 2.1 1993	646662		
92560139004	B-116D	EPA 300.0 Rev 2.1 1993	647162		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92560139**

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/9/24
Car

Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project # **WO# : 92560139**

PM: NMG

Due Date: 09/23/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



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

Section A Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Client Information: Georgia Power - Coal Combustion Residuals
 2480 Mable Road
 Atlanta, GA 30339
 Email: jlohmann@southemco.com
 Fax: (404) 506-7239
 Requested Due Date: 10 Day/TAT

Required Project Information: Report To: Jim Abraham
 Copy To: Odeker
 Project Name: Plant MacDonough Perimeters
 Order #: 10049821
 Budget

Invoice Information: Address: Savannah, GA
 Company Name: Savannah Electric Company
 POC: Kevin Hanning
 POC Profile #:

Requester's Agency: State / Location: GA

Page: 1 Of 1

ITEM #	MATERIAL	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C+COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION			Requester's Agency	State / Location		
							# OF CONTAINERS	Unpreserved - Ice	H2O4			HNO3 + Ice	
1	B-117D	WT	G	G	8/8/2021	16:15	5	2	3				
2	B-118	WT	G	G	8/8/2021	13:35	5	2	3				
3	B-118D	WT	G	G	9/9/2021	15:17	5	2	3				
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

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

MATERIAL
 Drinking Water: DW
 Wastewater: WW
 Surface Water: SW
 Groundwater: GW
 Air: Air
 Other: Other

CODE
 DW: Drinking Water
 WW: Wastewater
 SW: Surface Water
 GW: Groundwater
 Air: Air
 Other: Other

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G-GRAB C+COMP)

DATE
TIME

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Preservatives
 Unpreserved - Ice
 H2O4
 HNO3 + Ice
 HCl
 NaOH + Zn Acetate
 Na2S2O3
 Methanol
 Other

Analysis Test
 App 11/IV Total Metals
 Cl, F, SO4, TDS
 Radium 226/228

Requester's Agency
State / Location

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION
DATE
TIME

ACCEPTED BY / AFFILIATION
DATE
TIME

SAMPLE CONDITIONS

PH = 8.00
PH = 8.01
PH = 8.88

Job # WAGBTRACK SW... DATE Signed: 9/9/21

SW / Services 9/9/21 8:11
 E/102 9-9-21 YTS
 E/102 9/9/21 8:10
 E/102 9/9/21 8:10



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:

Georgia Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 9/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project #

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP9A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		✓	✓			✓																		✓					
2																													
3																													
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11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



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

Section A	Required Client Information:	Section B	Required Project Information:	Section C	Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Address: 2480 Manor Road Atlanta, GA 30339	Report To: Jov Abraham	Copy To: Golder	Attention: scimwoc@southernco.com	Company Name
Email: jabraham@southernco.com	Phone: (404) 506-7239	Purchase Order #: Plant McDonough Parameters	Project Name: Backlog	Address:	Regulatory Agency
	Fax: (404) 506-7239	Requested Due Date: 10 Day TAT	Project #: 166849621	Face Profile #:	State / Location GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION			# OF CONTAINERS	Preservatives	Analyses Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 6.02
							WT	G	DATE							
1	B-116D	DW														
2		WT														
3		WW														
4		SW														
5		SL														
6		OL														
7		WP														
8		AR														
9		OT														
10		TS														
11																
12																
13																

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jude Wagnerspack	9/10/21	1150	Chloe Lee Hank	9/10/21	1740
TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		

October 22, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH PIEZOMETERS RADS
Pace Project No.: 92560137

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH PIEZOMETERS RADS
Pace Project No.: 92560137

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560137001	B-117D	Water	09/08/21 16:15	09/09/21 08:45
92560137002	B-118	Water	09/08/21 13:35	09/09/21 08:45
92560137003	B-119D	Water	09/08/21 15:17	09/09/21 08:45
92560137004	B-116D	Water	09/09/21 13:53	09/10/21 17:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH PIEZOMETERS RADS
Pace Project No.: 92560137

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560137001	B-117D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560137002	B-118	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560137003	B-119D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560137004	B-116D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Sample: B-117D **Lab ID: 92560137001** Collected: 09/08/21 16:15 Received: 09/09/21 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.124 ± 0.226 (0.514) C:95% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.571 ± 0.456 (0.906) C:67% T:87%	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.695 ± 0.682 (1.42)	pCi/L	10/07/21 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Sample: B-118 **Lab ID: 92560137002** Collected: 09/08/21 13:35 Received: 09/09/21 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0218 ± 0.176 (0.498) C:96% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0324 ± 0.341 (0.790) C:65% T:94%	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0324 ± 0.517 (1.29)	pCi/L	10/07/21 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Sample: B-119D **Lab ID: 92560137003** Collected: 09/08/21 15:17 Received: 09/09/21 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0190 ± 0.153 (0.445) C:92% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.168 ± 0.399 (0.887) C:67% T:88%	pCi/L	10/04/21 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.168 ± 0.552 (1.33)	pCi/L	10/07/21 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Sample: B-116D **Lab ID: 92560137004** Collected: 09/09/21 13:53 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.388 ± 0.259 (0.447) C:100% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.499 ± 0.409 (0.817) C:64% T:91%	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.887 ± 0.668 (1.26)	pCi/L	10/06/21 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137001, 92560137002, 92560137003

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92560137001, 92560137002, 92560137003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch:	465347	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137001, 92560137002, 92560137003

METHOD BLANK: 2247077 Matrix: Water

Associated Lab Samples: 92560137001, 92560137002, 92560137003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137004

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560137004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137004

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560137004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560137001	B-117D	EPA 9315	465347		
92560137002	B-118	EPA 9315	465347		
92560137003	B-119D	EPA 9315	465347		
92560137004	B-116D	EPA 9315	465344		
92560137001	B-117D	EPA 9320	465345		
92560137002	B-118	EPA 9320	465345		
92560137003	B-119D	EPA 9320	465345		
92560137004	B-116D	EPA 9320	465343		
92560137001	B-117D	Total Radium Calculation	467213		
92560137002	B-118	Total Radium Calculation	467213		
92560137003	B-119D	Total Radium Calculation	467213		
92560137004	B-116D	Total Radium Calculation	467011		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Tower

Project #:

WO# : 92560137

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *9/16/24*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.5

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

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

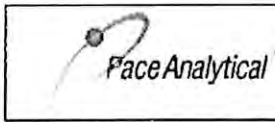
Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92560137

PM: NMG

Due Date: 09/30/21

CLIENT: GA-GA Power

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		✓	✓			✓																							
2		✓	✓			✓																							
3		✓	✓			✓																							
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A: Client Information:
 Client: Georgia Power - Coal Combustion Residuals
 Address: 2460 Meiner Road, Atlanta, GA 30338
 Email: jadenham@ge.com
 Phone: (404) 500-7236
 Project: Plant McDonough Permittees Bidged

Section B: Required Project Information:
 Report To: Jim Ashman
 Copy To: Golder
 Project Name: Plant McDonough Permittees Bidged
 Project #: 16684821

Section C: Invoice Information:
 Attention: ceahinocok@ge.com
 Company Name: Golder
 Project Manager: Kevin Hanning
 State / Location: GA

Section D: Analytical Parameters:
 Preservatives: H2SO4, HNO3 + Ice, HCl, NaOH + Zn Acetate, Na2S2O3, Methanol, Other
 Analysis Test: App I/IV Total Metals, Cl, F, SO4, TDS, Radium 226/228
 Residual Chlorine (Y/N)

#	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION							RESIDUAL CHLORINE (Y/N)	REMARKS	
					1	2	3	4	5	6	7			8
1	B-117D	WT	9/8/2021	16:15									pH = 6.00	
2	B-118	WT	9/8/2021	13:35									pH = 8.01	
3	B-119D	WT	9/8/2021	15:17									pH = 6.86	
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SIGNATURE		CONDITIONS			
		JAN / SANCORA	9/9/21	8:11	J. E. VOGEL		9/9/21	8:10						
		J. E. VOGEL	9-9-21	8:15	DANIEL HANNAH		9/9/21	08:15						

JOE WAGGERSACK

DATE SIGNED: 9/9/21

TEMP IN C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

[Empty box for Project #]

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/10/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 3.4 Correction Factor: ± 0.1
Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project #

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP9A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		✓	✓			✓																		✓				
2																												
3																												
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10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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



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

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road
 Atlanta, GA 30339
 Email: jabraham@souhenco.com
 Phone: (404) 506-7239
 Fax: (404) 506-7239
 Requested Due Date: 10 Day TAT

Section B
 Required Project Information:
 Report To: Jov Abraham
 Copy To: Golder
 Project Name: Plant McDonough Parameters Backlog
 Project #: 166849621

Section C
 Invoice Information:
 Attention: scimovics@souhenco.com
 Company Name: [Blank]
 Address: [Blank]
 Pace Quote: [Blank]
 Pace Project Manager: Kevin Henning
 Pace Profile #: [Blank]

Regulatory Agency: [Blank]
 State / Location: GA

Page : 1 Of 1

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives				Analyses Test				Requested Analytcs Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 6.02
								H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N			
1	B-116D	WT	G	9/9/2021	13:53	5	2	3	X	X	X							
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		

ADDITIONAL COMMENTS: [Blank]

RELINQUISHED BY / AFFILIATION: [Blank]

DATE: 9/10/21

TIME: 11:50

ACCEPTED BY / AFFILIATION: [Signature]

DATE: 9/10/21

TIME: 17:00

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

Jude Wagnerspack

DATE Signed: 9/10/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/1/2021
Worklist: 62848
Matrix: WT



Method Blank Assessment	
MB Sample ID	2247069
MB concentration:	0.209
MB 2 Sigma CSU:	0.287
MB MDC:	0.612
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62848	LCS062848
Count Date:	10/4/2021	10/4/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.973	37.973
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.812
Target Conc. (pCi/L, g, F):	4.703	4.676
Uncertainty (Calculated):	0.230	0.229
Result (pCi/L, g, F):	3.772	4.931
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.892	1.094
Numerical Performance Indicator:	-1.98	0.45
Percent Recovery:	80.20%	105.45%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62848
Duplicate Sample I.D.:	LCS062848
Sample Result (pCi/L, g, F):	3.772
Sample Duplicate Result (pCi/L, g, F):	0.892
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.931
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.094
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.609
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

10/1/21
JC2

JL
10/5/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/1/2021
Worklist: 62850
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247073
MB concentration:	0.306
MB 2 Sigma CSU:	0.283
MB MDC:	0.572
MB Numerical Performance Indicator:	2.12
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62850	Y
Count Date:	10/4/2021	LCS62850
Spike I.D.:	21-029	10/4/2021
Decay Corrected Spike Concentration (pCi/mL):	37.973	21-029
Volume Used (mL):	0.10	37.973
Aliquot Volume (L, g, F):	0.805	0.10
Target Conc. (pCi/L, g, F):	4.716	0.816
Uncertainty (Calculated):	0.231	4.653
Result (pCi/L, g, F):	5.361	0.228
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.173	4.280
Numerical Performance Indicator:	1.06	0.992
Percent Recovery:	113.68%	-0.72
Status vs Numerical Indicator:	N/A	91.98%
Status vs Recovery:	Pass	N/A
Upper % Recovery Limits:	135%	Pass
Lower % Recovery Limits:	60%	135%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62850
Duplicate Sample I.D.:	LCS62850
Sample Result (pCi/L, g, F):	5.361
Sample Duplicate Result (pCi/L, g, F):	1.173
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.992
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.380
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.11%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

10/5/21

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Relatio
CMM*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/28/2021
Worklist: 62849
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247072
MB concentration:	0.007
M/B Counting Uncertainty:	0.168
MB MDC:	0.443
MB Numerical Performance Indicator:	0.08
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS/D (Y or N)?	LCS/D (Y or N)?	
	LCS62849	LCS62849
Count Date:	10/6/2021	10/6/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Alliquot Volume (L, g, F):	0.502	0.502
Target Conc. (pCi/L, g, F):	4.779	4.791
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.249	5.218
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.691	0.720
Numerical Performance Indicator:	1.33	1.16
Percent Recovery:	109.83%	108.93%
Status vs Numerical Indicator:	Pass	N/A
Upper % Recovery Limits:	125%	Pass
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92560766017
Duplicate Sample I.D.:	92560766017DUP
Sample Result (pCi/L, g, F):	0.383
Sample Duplicate Result (pCi/L, g, F):	0.227
Sample Result Counting Uncertainty (pCi/L, g, F):	0.691
Sample Duplicate Result (pCi/L, g, F):	0.174
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.199
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.060
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.82%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

**** Batch cannot be re-prepped due to unacceptable precision. N/A
11/10/21 SAM 12/10/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):</p> <p>Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D. Sample MS I.D. Sample MSD I.D.:</p> <p>Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>

12/10/21 SAM 12/10/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 9/28/2021
Worklist: 62851
Matrix: DW



Method Blank Assessment	
MB Sample ID	2247077
MB concentration:	-0.028
M/B Counting Uncertainty:	0.217
MB MDC:	0.589
MB Numerical Performance Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62851	YCS62851
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.508
Target Conc. (pCi/L, g, F):	4.792	4.734
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	4.037	4.418
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.623	0.646
Numerical Performance Indicator:	-2.37	-0.95
Percent Recovery:	84.25%	93.33%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	92560765014
Duplicate Sample I.D.:	92560765014DUP
Sample Result (pCi/L, g, F):	0.428
Sample Result Counting Uncertainty (pCi/L, g, F):	0.225
Sample Duplicate Result (pCi/L, g, F):	0.178
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.185
Are sample and/or duplicate results below RL?	See Below
Duplicate Numerical Performance Indicator:	1.678
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator:		
MS Status vs Recovery: MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepared due to unacceptable precision.

L/MDCs N/A

10/7/21
DW

10/17/21

September 28, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH
Pace Project No.: 92561195

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH

Pace Project No.: 92561195

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH

Pace Project No.: 92561195

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92561195001	B-100	Water	09/13/21 16:55	09/14/21 09:35
92560768001	B-62	Water	09/09/21 15:45	09/10/21 17:40

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH

Pace Project No.: 92561195

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92561195001	B-100	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768001	B-62	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH
Pace Project No.: 92561195

Sample: B-100		Lab ID: 92561195001		Collected: 09/13/21 16:55		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 16:42		
pH	5.27	Std. Units			1		09/14/21 16:42		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	51.5	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:34	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:34	7440-39-3	
Beryllium	0.00053	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:34	7440-41-7	
Boron	0.24	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:34	7440-42-8	
Cadmium	0.00029J	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:34	7440-47-3	
Cobalt	0.035	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:34	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	636	mg/L	20.0	20.0	1		09/20/21 16:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	11.1	mg/L	1.0	0.60	1		09/15/21 21:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 21:55	16984-48-8	
Sulfate	351	mg/L	8.0	4.0	8		09/16/21 03:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH
Pace Project No.: 92561195

Sample: B-62		Lab ID: 92560768001		Collected: 09/09/21 15:45		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/13/21 08:41		
pH	6.31	Std. Units			1		09/13/21 08:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	29.2	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 17:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:15	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:15	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:15	7440-41-7	
Boron	0.068	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:15	7439-92-1	
Lithium	0.0094J	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	174	mg/L	10.0	10.0	1		09/15/21 18:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.8	mg/L	1.0	0.60	1		09/15/21 06:38	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		09/15/21 06:38	16984-48-8	
Sulfate	49.2	mg/L	1.0	0.50	1		09/15/21 06:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 648325	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768001

METHOD BLANK: 3400203 Matrix: Water

Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/20/21 17:23	

LABORATORY CONTROL SAMPLE: 3400204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400205 3400206

Parameter	Units	3400205		3400206		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	42.0	1	1	44.1	42.4	202	31	75-125	4	20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 648974	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92561195001

METHOD BLANK: 3403796 Matrix: Water
Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/23/21 17:54	

LABORATORY CONTROL SAMPLE: 3403797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3403798 3403799

Parameter	Units	92560768003		3403798		3403799		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Calcium	mg/L	42.1	1	41.6	1	40.7	-42	-139	75-125	2	20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 648326 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768001

METHOD BLANK: 3400210 Matrix: Water
Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 11:04	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 11:04	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 11:04	
Boron	mg/L	ND	0.040	0.0086	09/22/21 11:04	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 11:04	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 11:04	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 11:04	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 11:04	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 11:04	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 11:04	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 11:04	

LABORATORY CONTROL SAMPLE: 3400211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400212 3400213

Parameter	Units	92560774001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH

Pace Project No.: 92561195

Parameter	Units	3400212		3400213		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.022	0.1	0.1	0.13	0.13	104	103	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		
Boron	mg/L	0.51	1	1	1.6	1.6	110	109	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Cobalt	mg/L	0.0048J	0.1	0.1	0.11	0.11	101	102	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20		
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.12	99	99	75-125	0	20		
Molybdenum	mg/L	0.0023J	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Selenium	mg/L	0.0031J	0.1	0.1	0.11	0.11	104	106	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 648523 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92561195001

METHOD BLANK: 3401252 Matrix: Water
Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 18:13	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 18:13	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 18:13	
Boron	mg/L	ND	0.040	0.0086	09/22/21 18:13	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 18:13	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 18:13	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 18:13	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 18:13	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 18:13	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 18:13	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 18:13	

LABORATORY CONTROL SAMPLE: 3401253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	109	80-120	
Cobalt	mg/L	0.1	0.11	108	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3401254 3401255

Parameter	Units	92560774020 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	107	75-125	1	20	
Arsenic	mg/L	0.0016J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH

Pace Project No.: 92561195

Parameter	Units	3401254		3401255		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92560774020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.021	0.1	0.1	0.13	0.13	113	113	75-125	0	20		
Beryllium	mg/L	0.0090	0.1	0.1	0.10	0.10	92	94	75-125	2	20		
Boron	mg/L	0.16	1	1	1.2	1.2	99	102	75-125	3	20		
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.10	101	100	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		
Cobalt	mg/L	0.23	0.1	0.1	0.34	0.32	107	94	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lithium	mg/L	0.053	0.1	0.1	0.15	0.14	95	90	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Selenium	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	97	75-125	2	20		
Thallium	mg/L	0.00036J	0.1	0.1	0.097	0.097	97	96	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 648337 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92560768001

METHOD BLANK: 3400307 Matrix: Water
Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 12:04	

LABORATORY CONTROL SAMPLE: 3400308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400309 3400310

Parameter	Units	3400309		3400310		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561283001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0024	103	96	75-125	7	20

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 649459	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92561195001

METHOD BLANK: 3406298 Matrix: Water

Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 16:51	

LABORATORY CONTROL SAMPLE: 3406299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406300 3406301

Parameter	Units	3406300		3406301		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92560774017 ND	0.0025	0.0025	0.0026	100	103	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 647027

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768001

METHOD BLANK: 3393790

Matrix: Water

Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/15/21 18:56	

LABORATORY CONTROL SAMPLE: 3393791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3393792

Parameter	Units	92560138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	78.0	4	10	

SAMPLE DUPLICATE: 3393793

Parameter	Units	92560281005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	139	4	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 648323

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92561195001

METHOD BLANK: 3400167

Matrix: Water

Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/21 16:33	

LABORATORY CONTROL SAMPLE: 3400168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3400169

Parameter	Units	92560963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	127	9	10	

SAMPLE DUPLICATE: 3400170

Parameter	Units	92560768008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	295	0	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 647162 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768001

METHOD BLANK: 3394748 Matrix: Water
Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		3394750		3394751		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10 M1
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10 M1
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		3394752		3394753		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10 M1
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		3394754		3394755		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10 M1
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10 M1
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	90-110	2	10 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH
Pace Project No.: 92561195

QC Batch: 647237 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92561195001

METHOD BLANK: 3394951 Matrix: Water
Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 13:41	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 13:41	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 13:41	

LABORATORY CONTROL SAMPLE: 3394952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394953 3394954

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774021	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	10.9	50	50	62.5	63.0	103	104	90-110	1	10		
Fluoride	mg/L	0.47	2.5	2.5	3.3	3.3	112	112	90-110	0	10	M1	
Sulfate	mg/L	272	50	50	315	313	87	82	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394955 3394956

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.7	50	50	59.6	60.9	102	104	90-110	2	10		
Fluoride	mg/L	0.051J	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	174	50	50	217	219	88	91	90-110	1	10	M1	

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QUALIFIERS

Project: MCDONOUGH

Pace Project No.: 92561195

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH

Pace Project No.: 92561195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768001	B-62				
92561195001	B-100				
92560768001	B-62	EPA 3010A	648325	EPA 6010D	648333
92561195001	B-100	EPA 3010A	648974	EPA 6010D	649029
92560768001	B-62	EPA 3005A	648326	EPA 6020B	648331
92561195001	B-100	EPA 3005A	648523	EPA 6020B	648596
92560768001	B-62	EPA 7470A	648337	EPA 7470A	648433
92561195001	B-100	EPA 7470A	649459	EPA 7470A	649538
92560768001	B-62	SM 2540C-2011	647027		
92561195001	B-100	SM 2540C-2011	648323		
92560768001	B-62	EPA 300.0 Rev 2.1 1993	647162		
92561195001	B-100	EPA 300.0 Rev 2.1 1993	647237		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #

WO# : 92561195



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/10/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

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

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

Field Data Required? Yes No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Georgia Power - Coal Combustion Residuals
 Address: 2480 Marner Road Atlanta, GA 30339
 Email: jabraham@southernco.com
 Phone: (404) 506-7239
 Requested Due Date: 10 Day TAT

Section B Required Project Information: Report To: Jolu Abraham
 Copy To: Golder
 Purchase Order #:
 Project Name: Plant McDonough B-62 and B-100
 Requested Due Date: 10 Day TAT
 Project #: 166849621

Section C Invoice Information: Attention: seainvoices@southernco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Heming
 Pace Profile #:
 State / Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Requested Analysis Filled (Y/N)	Residual Chlorine (Y/N)	pH = 6.31	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
							H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol									Other
1	B-62	WT	9/9/2021	15:45		5	2	3						X	X	X					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

ADDITIONAL COMMENTS: **AW 999 - Ren**

REINQUISHED BY / AFFILIATION: **AW 999 - Ren**

DATE: 9/10/2021

TIME: 17:30

ACCEPTED BY / AFFILIATION: *[Signature]*

DATE: 9/10/2021

TIME: 17:40

3.5

Y

N

Y

jude Waguespack / Golder

DATE Signed: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta ~~Kernersville~~

Sample Condition Upon Receipt

Client Name: GA Power Project #:

WO# : 92561195
 PM: NMG Due Date: 09/24/21
 CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/14/21 KPW

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: THR214 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 3.3 Correction Factor: -0.1
 Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil N/A, water sample
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. 10 Day TAT
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5.6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

B-100 present, even though it is crossed out on the COC.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION B-100 on separate project w/ B-62
New COC's received

Person contacted: Daniela Herrera Date/Time: 9/15/21 0901

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road
 Atlanta, GA 30339

Section B
 Required Project Information:
 Report To: Jolu Abraham
 Copy To: Golder
 Purchase Order #:
 Project Name: Plant McDonough B-62 and B-100
 Project #: 168849821

Section C
 Invoice Information:
 Attention: scsinvoices@southemco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring
 Pace Profile #:

Page : 1 Of 1

Requested Due Date: 10 Day TAT

Phone: (404) 506-7239
 Fax:
 Email: jbraham@southemco.com
 Project #: 168849821

Requested Analysis Filtered (Y/N)

Regulatory Agency
 State / Location
 GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH = 5.27
									Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3					
1	B-100	WT	G	G	9/13/2021	16:55		5	2	3									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Aw 999 - men
 DATE: 9/14/2021
 TIME: 17:305

ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 9/14/21
 TIME: 4:05

TEMP in C: 3.2
 Received on Ice (Y/N): Y
 Custody Sealed Cooler (Y/N): N
 Samples Intact (Y/N): Y

Jude Waguespack / Golder

DATE Signed: _____

November 04, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH RADS
Pace Project No.: 92561190

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92561190001	B-100	Water	09/13/21 16:55	09/14/21 09:35
92560765001	B-62	Water	09/09/21 15:45	09/10/21 17:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92561190001	B-100	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765001	B-62	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Sample: B-100 **Lab ID: 92561190001** Collected: 09/13/21 16:55 Received: 09/14/21 09:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.116 ± 0.212 (0.482) C:96% T:NA	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.658 ± 0.401 (0.741) C:62% T:99%	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.774 ± 0.613 (1.22)	pCi/L	10/07/21 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Sample: B-62 **Lab ID: 92560765001** Collected: 09/09/21 15:45 Received: 09/10/21 17:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.757 ± 0.323 (0.388) C:93% T:NA	pCi/L	10/06/21 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.946 ± 0.465 (0.793) C:64% T:86%	pCi/L	10/04/21 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.70 ± 0.788 (1.18)	pCi/L	10/07/21 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 466957

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2255015

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0260 ± 0.142 (0.353) C:102% T:NA	pCi/L	10/19/21 08:55	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92561190001

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92561190001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465341

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247067

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.554 ± 0.366 (0.696) C:72% T:88%	pCi/L	09/30/21 11:24	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 466410

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2252279

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465348

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247079

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.625 ± 0.317 (0.544) C:74% T:91%	pCi/L	10/06/21 11:18	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465347

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92561190001

METHOD BLANK: 2247077

Matrix: Water

Associated Lab Samples: 92561190001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465350

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247083

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0502 ± 0.146 (0.360) C:88% T:NA	pCi/L	10/07/21 08:30	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765001

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560765001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 466264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2251638

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765001

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560765001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465342

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247068

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.189 ± 0.181 (0.337) C:97% T:NA	pCi/L	10/06/21 08:11	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH RADS

Pace Project No.: 92561190

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560765001	B-62	EPA 9315	465344		
92561190001	B-100	EPA 9315	465347		
92560765001	B-62	EPA 9320	465343		
92561190001	B-100	EPA 9320	465345		
92560765001	B-62	Total Radium Calculation	467213		
92561190001	B-100	Total Radium Calculation	467213		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #

WO#: 92561190



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 9/10/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) ± 0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road Atlanta, GA 30339
 Email: jbraham@southemco.com
 Phone: (404) 506-7239
 Requested Due Date: 10 Day TAT

Section B Required Project Information: Report To: Joli Abraham
 Copy To: Golder
 Purchase Order #: Plant McDonough B-62 and B-100
 Project Name: Plant McDonough B-62 and B-100
 Project #: 168849821

Section C Invoice Information: Attention: scinvoic@southemco.com
 Company Name: Golder
 Address: [Blank]
 POC Name: Kevin Herring
 POC Title: Plant Project Manager
 POC Email: [Blank]
 POC Phone: [Blank]
 POC Fax: [Blank]
 POC Address: [Blank]
 POC City: [Blank]
 POC State: GA
 POC Zip: [Blank]

ITEM #	MATRIX	CODE	WT	G	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH
									H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol				
1	B-62				9/9/2021	15:45		5	2	3								6.31
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

ADDITIONAL COMMENTS: Aw 999 m Ren

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 9/10/2021 TIME: 17:00

ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/10/21 TIME: 1740

TEMP in C: 7.5

Received on ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

jude Waguespack/ Golder

DATE Signed: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92561190

PM: NMG

Due Date: 10/01/21

CLIENT: GA-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/14/21 KPW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

THR214

Type of Ice:

Water Blue None

Cooler Temp:

3.3

Correction Factor:

Add/Subtract (°C)

-0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.2

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

B-100 present, even though it is crossed out on the COC.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

B-100 on separate project w/ B-62
New COC's received

Person contacted:

Daniel Herrera

Date/Time:

9/15/21 0901

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



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

Section A Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road
 Atlanta, GA 30339

Section B Request Project Information:
 Report To: Jodi Abraham
 Copy To: Golder

Section C Invoice Information:
 Attention: scsinvoices@southernco.com
 Company Name:
 Address:
 POC Name:
 POC Title:
 POC Email:

Requested Due Date: 10 Day TAT

Section B Purchase Order #:
 Project Name: Plant McDonough B-62 and B-100
 Project #: 168849621

Section C POC Profile #:
 POC Name: Kevin Herring

Requested Analysis Filtered (Y/N)

ITEM #	MATRIX One Character per box (A-Z, 0-9 /, -,) Sample IDs must be unique	CODE Drinking Water DWR Waste Water WW Industrial Water IWI Product P Sewer/Solid S Oil OIL Wipe WIP Air AIR Other OT Tissue TS	Matrix Code (see valid codes to left)			Sample Type (G=GRAB C=COMP)			DATE		SAMPLE TEMP AT COLLECTION			Preservatives			Analyses Test			Residual Chlorine (Y/N)	pH			
			WT	G	C	DATE	TIME	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	N	N			N		
1	B-100		WT	G	C	9/13/2021	16:55	5	2	3														
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: *AW* 999 *m-hen*
 DATE: 9/14/2021 TIME: 17:35
 ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 9/14/21 TIME: 16:35
 TEMP in C: 3.2
 Received on Ice (Y/N): Y
 Custody Sealed Cooler (Y/N): N
 Samples Intact (Y/N): Y

Jude Waguespack / Golder

DATE Signed:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/1/2021
Worklist: 62850
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247073
MB concentration:	0.306
MB 2 Sigma CSU:	0.283
MB MDC:	0.572
MB Numerical Performance Indicator:	2.12
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62850	Y
Count Date:	10/4/2021	LCS62850
Spike I.D.:	21-029	10/4/2021
Decay Corrected Spike Concentration (pCi/mL):	37.973	21-029
Volume Used (mL):	0.10	37.973
Aliquot Volume (L, g, F):	0.805	0.10
Target Conc. (pCi/L, g, F):	4.716	0.816
Uncertainty (Calculated):	0.231	4.653
Result (pCi/L, g, F):	5.361	0.228
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.173	4.280
Numerical Performance Indicator:	1.06	0.992
Percent Recovery:	113.68%	-0.72
Status vs Numerical Indicator:	N/A	91.98%
Status vs Recovery:	Pass	N/A
Upper % Recovery Limits:	135%	Pass
Lower % Recovery Limits:	60%	135%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62850
Duplicate Sample I.D.:	LCS62850
Sample Result (pCi/L, g, F):	5.361
Sample Duplicate Result (pCi/L, g, F):	1.173
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.992
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.380
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.11%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

10/5/21

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Relatio
CMM*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: CLA
Date: 9/28/2021
Worklist: 62851
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247077
MB concentration:	-0.028
M/B Counting Uncertainty:	0.217
MB MDC:	0.589
MB Numerical Performance Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62851	YCS62851
Count Date:	10/7/2021	10/7/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.508
Target Conc. (pCi/L, g, F):	4.792	4.734
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	4.037	4.418
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.623	0.646
Numerical Performance Indicator:	-2.37	-0.95
Percent Recovery:	84.25%	93.33%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	LCS62851	LCS62851
Duplicate Sample I.D.:	LCS62851	LCS62851
Sample Result (pCi/L, g, F):	4.037	4.037
Sample Result Counting Uncertainty (pCi/L, g, F):	0.623	0.623
Sample Duplicate Result (pCi/L, g, F):	4.418	4.418
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.646	0.646
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	-0.832	-0.832
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.22%	10.22%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92560765014
Sample MS I.D.:	92560765014DUP
Sample MSD I.D.:	0.428
Sample Matrix Spike Result:	0.225
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.178
Sample Matrix Spike Duplicate Result:	0.185
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.678
Matrix Spike Duplicate Result Numerical Performance Indicator:	82.59%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Fail***
MS/MSD Duplicate Status vs RPD:	25%
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

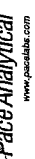
***Batch must be re-prepped due to unacceptable precision.

L/MDCs N/A

10/12/21
DW

10/17/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/1/2021
Worklist: 62848
Matrix: WT

Method Blank Assessment	
MB Sample ID	2247069
MB concentration:	0.209
MB 2 Sigma CSU:	0.287
MB MDC:	0.612
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS62848	LCS062848
Count Date:	10/4/2021	10/4/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.973	37.973
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.812
Target Conc. (pCi/L, g, F):	4.703	4.676
Uncertainty (Calculated):	0.230	0.229
Result (pCi/L, g, F):	3.772	4.931
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.892	1.094
Numerical Performance Indicator:	-1.98	0.45
Percent Recovery:	80.20%	105.45%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS62848
Duplicate Sample I.D.:	LCS062848
Sample Result (pCi/L, g, F):	3.772
Sample Duplicate Result (pCi/L, g, F):	0.892
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.931
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.094
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.609
Duplicate (Percent Recoveries) Duplicate RPD:	27.20%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

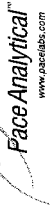
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate (Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

10/1/21
JC2

JL
10/5/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/28/2021
Worklist: 62849
Matrix: DW

Method Blank Assessment	
MB Sample ID	2247072
MB concentration:	0.007
M/B Counting Uncertainty:	0.168
MB MDC:	0.443
MB Numerical Performance Indicator:	0.08
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS/D (Y or N)?	LCS/D (Y or N)?	
	LCS62849	LCS62849
Count Date:	10/6/2021	10/6/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.033	24.033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.502
Target Conc. (pCi/L, g, F):	4.779	4.791
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.249	5.218
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.691	0.720
Numerical Performance Indicator:	1.33	1.16
Percent Recovery:	109.83%	108.93%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92560766017
Duplicate Sample I.D.:	92560766017DUP
Sample Result (pCi/L, g, F):	0.393
Sample Duplicate Result (pCi/L, g, F):	0.227
Sample Result Counting Uncertainty (pCi/L, g, F):	0.691
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.174
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.199
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.060
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.82%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch cannot be re-prepped due to unacceptable precision. N/A
SAM 10/10/21

10/10/21
LAW

September 17, 2021

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

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Dear Kelley Sharpe:

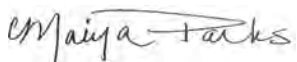
Enclosed are the analytical results for sample(s) received by the laboratory on September 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92559852001	CR+0.4	Water	09/07/21 14:56	09/08/21 12:45
92559852002	CR+0.2	Water	09/07/21 15:03	09/08/21 12:45
92559852003	CR-0.1	Water	09/07/21 15:08	09/08/21 12:45
92559852004	DW_DS	Water	09/07/21 15:10	09/08/21 12:45
92559852005	DW_US	Water	09/07/21 15:18	09/08/21 12:45
92559852006	CR-0.2	Water	09/07/21 15:23	09/08/21 12:45
92559852007	CR-0.5	Water	09/07/21 15:29	09/08/21 12:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559852001	CR+0.4	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852002	CR+0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852003	CR-0.1	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852004	DW_DS	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852005	DW_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852006	CR-0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852007	CR-0.5	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Sample: CR+0.4		Lab ID: 92559852001		Collected: 09/07/21 14:56	Received: 09/08/21 12:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	3.4	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:05	7440-09-7	
Sodium	10.0	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:05	7440-23-5	
Calcium	6.7	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:05	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:05	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:13	7440-38-2	
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:13	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:13	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	09/09/21 11:50	09/09/21 22:13	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	77.0	mg/L	10.0	1		09/09/21 19:53		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	26.6	mg/L	5.0	1		09/10/21 15:45		
Alkalinity, Total as CaCO ₃	26.6	mg/L	5.0	1		09/10/21 15:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	9.9	mg/L	1.0	1		09/09/21 22:25	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/09/21 22:25	16984-48-8	
Sulfate	7.0	mg/L	1.0	1		09/09/21 22:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Sample: CR+0.2	Lab ID: 92559852002	Collected: 09/07/21 15:03		Received: 09/08/21 12:45		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.3	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:09	7440-09-7	
Sodium	9.9	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:09	7440-23-5	
Calcium	6.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:09	7440-70-2	
Magnesium	2.7	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:09	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:19	7440-38-2	
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:19	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:19	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	09/09/21 11:50	09/09/21 22:19	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	73.0	mg/L	10.0	1		09/09/21 19:53		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	26.9	mg/L	5.0	1		09/10/21 15:50		
Alkalinity, Total as CaCO ₃	26.9	mg/L	5.0	1		09/10/21 15:50		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.7	mg/L	1.0	1		09/09/21 22:45	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/09/21 22:45	16984-48-8	
Sulfate	6.4	mg/L	1.0	1		09/09/21 22:45	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: CR-0.1	Lab ID: 92559852003	Collected: 09/07/21 15:08	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.2	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:14	7440-09-7	
Sodium	9.4	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:14	7440-23-5	
Calcium	6.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:14	7440-70-2	
Magnesium	2.7	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:14	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:36	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:36	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	78.0	mg/L	10.0	1		09/09/21 19:54		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	26.8	mg/L	5.0	1		09/10/21 15:56		
Alkalinity, Total as CaCO ₃	26.8	mg/L	5.0	1		09/10/21 15:56		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.8	mg/L	1.0	1		09/09/21 23:51	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/09/21 23:51	16984-48-8	
Sulfate	8.0	mg/L	1.0	1		09/09/21 23:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Sample: DW_DS		Lab ID: 92559852004		Collected: 09/07/21 15:10	Received: 09/08/21 12:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	3.2	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:19	7440-09-7	
Sodium	9.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:19	7440-23-5	
Calcium	7.3	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:19	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:19	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:41	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:41	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	83.0	mg/L	10.0	1		09/09/21 19:54		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	26.4	mg/L	5.0	1		09/10/21 16:02		
Alkalinity, Total as CaCO ₃	26.4	mg/L	5.0	1		09/10/21 16:02		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	9.8	mg/L	1.0	1		09/10/21 00:16	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/10/21 00:16	16984-48-8	
Sulfate	10.4	mg/L	1.0	1		09/10/21 00:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Sample: DW_US		Lab ID: 92559852005		Collected: 09/07/21 15:18	Received: 09/08/21 12:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	3.4	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:24	7440-09-7	
Sodium	10.1	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:24	7440-23-5	
Calcium	6.7	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:24	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:24	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	0.073	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:47	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:47	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	82.0	mg/L	10.0	1		09/09/21 19:54		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	28.0	mg/L	5.0	1		09/10/21 16:27		
Alkalinity, Total as CaCO ₃	28.0	mg/L	5.0	1		09/10/21 16:27		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	9.9	mg/L	1.0	1		09/10/21 01:37	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/10/21 01:37	16984-48-8	
Sulfate	6.5	mg/L	1.0	1		09/10/21 01:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: CR-0.2	Lab ID: 92559852006	Collected: 09/07/21 15:23	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.3	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:28	7440-09-7	
Sodium	9.7	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:28	7440-23-5	
Calcium	6.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:28	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:28	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:53	7440-38-2	
Boron	0.046	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:53	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:53	7440-48-4	
Selenium	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:53	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	77.0	mg/L	10.0	1		09/13/21 17:34		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	27.5	mg/L	5.0	1		09/10/21 16:33		
Alkalinity, Total as CaCO ₃	27.5	mg/L	5.0	1		09/10/21 16:33		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.8	mg/L	1.0	1		09/10/21 01:53	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		09/10/21 01:53	16984-48-8	
Sulfate	7.3	mg/L	1.0	1		09/10/21 01:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

Sample: CR-0.5		Lab ID: 92559852007		Collected: 09/07/21 15:29	Received: 09/08/21 12:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	3.1	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:33	7440-09-7	
Sodium	9.2	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:33	7440-23-5	
Calcium	6.5	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:33	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:33	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:59	7440-38-2	
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:59	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:59	7440-48-4	
Selenium	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:59	7782-49-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	75.0	mg/L	10.0	1		09/13/21 17:34		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	27.1	mg/L	5.0	1		09/10/21 16:48		
Alkalinity, Total as CaCO ₃	27.1	mg/L	5.0	1		09/10/21 16:48		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	9.6	mg/L	1.0	1		09/10/21 02:09	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/10/21 02:09	16984-48-8	
Sulfate	6.3	mg/L	1.0	1		09/10/21 02:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

QC Batch: 645863 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3387833 Matrix: Water
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	09/09/21 16:55	
Magnesium	mg/L	ND	0.050	09/09/21 16:55	
Potassium	mg/L	ND	0.20	09/09/21 16:55	
Sodium	mg/L	ND	1.0	09/09/21 16:55	

LABORATORY CONTROL SAMPLE: 3387834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.1	105	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387835 3387836

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92558259003 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	11.0	1	1	12.0	12.1	103	112	75-125	1	20
Magnesium	mg/L	36.1	1	1	37.0	36.6	92	43	75-125	1	20 M1
Potassium	mg/L	6.1	1	1	7.1	7.0	102	90	75-125	2	20
Sodium	mg/L	24.9	1	1	25.9	25.3	101	40	75-125	2	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

QC Batch: 645868 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3387883 Matrix: Water
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	09/09/21 20:18	
Boron	mg/L	ND	0.040	09/09/21 20:18	
Cobalt	mg/L	ND	0.0050	09/09/21 20:18	
Molybdenum	mg/L	ND	0.010	09/09/21 20:18	
Selenium	mg/L	ND	0.0050	09/09/21 20:18	

LABORATORY CONTROL SAMPLE: 3387884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387885 3387886

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92558259007 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/L	0.0013J	0.1	0.1	0.098	0.098	97	97	75-125	0	20
Boron	mg/L	6.1	1	1	7.4	7.1	131	100	75-125	4	20 M1
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	110	106	75-125	4	20
Selenium	mg/L	0.060	0.1	0.1	0.15	0.16	92	95	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

QC Batch: 646143 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005

METHOD BLANK: 3389158 Matrix: Water
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/09/21 19:50	

LABORATORY CONTROL SAMPLE: 3389159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3389160

Parameter	Units	92560175001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	106000	138000	26	10	D6

SAMPLE DUPLICATE: 3389161

Parameter	Units	92559795003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	43.0	114	90	10	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

QC Batch: 646764 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559852006, 92559852007

METHOD BLANK: 3392639 Matrix: Water

Associated Lab Samples: 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/13/21 17:34	

LABORATORY CONTROL SAMPLE: 3392640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	410	102	90-111	

SAMPLE DUPLICATE: 3392641

Parameter	Units	92560619001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	506	546	8	10	

SAMPLE DUPLICATE: 3392642

Parameter	Units	92560079008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	70.0	91.0	26	10	D6

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

QC Batch: 646357 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3390316 Matrix: Water
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/10/21 13:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	09/10/21 13:46	

LABORATORY CONTROL SAMPLE: 3390317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

LABORATORY CONTROL SAMPLE: 3390318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390319 3390320

Parameter	Units	92559814001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	60.1	50	50	109	111	98	101	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390321 3390322

Parameter	Units	92559852004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	77.2	78.1	102	103	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92559852

QC Batch: 646085 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3388761 Matrix: Water
Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/09/21 17:24	
Fluoride	mg/L	ND	0.10	09/09/21 17:24	
Sulfate	mg/L	ND	1.0	09/09/21 17:24	

LABORATORY CONTROL SAMPLE: 3388762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388763 3388764

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559773002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	34.7	50	50	50	87.2	87.7	105	106	90-110	1	10	
Fluoride	mg/L	0.61	2.5	2.5	2.5	3.3	3.3	107	106	90-110	1	10	
Sulfate	mg/L	135	50	50	50	184	184	98	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388765 3388766

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559852002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	9.7	50	50	50	62.5	63.9	106	108	90-110	2	10	
Fluoride	mg/L	0.14	2.5	2.5	2.5	2.7	2.8	102	105	90-110	3	10	
Sulfate	mg/L	6.4	50	50	50	61.0	62.2	109	112	90-110	2	10 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559852001	CR+0.4	EPA 3010A	645863	EPA 6010D	646176
92559852002	CR+0.2	EPA 3010A	645863	EPA 6010D	646176
92559852003	CR-0.1	EPA 3010A	645863	EPA 6010D	646176
92559852004	DW_DS	EPA 3010A	645863	EPA 6010D	646176
92559852005	DW_US	EPA 3010A	645863	EPA 6010D	646176
92559852006	CR-0.2	EPA 3010A	645863	EPA 6010D	646176
92559852007	CR-0.5	EPA 3010A	645863	EPA 6010D	646176
92559852001	CR+0.4	EPA 3005A	645868	EPA 6020B	646190
92559852002	CR+0.2	EPA 3005A	645868	EPA 6020B	646190
92559852003	CR-0.1	EPA 3005A	645868	EPA 6020B	646190
92559852004	DW_DS	EPA 3005A	645868	EPA 6020B	646190
92559852005	DW_US	EPA 3005A	645868	EPA 6020B	646190
92559852006	CR-0.2	EPA 3005A	645868	EPA 6020B	646190
92559852007	CR-0.5	EPA 3005A	645868	EPA 6020B	646190
92559852001	CR+0.4	SM 2540C-2011	646143		
92559852002	CR+0.2	SM 2540C-2011	646143		
92559852003	CR-0.1	SM 2540C-2011	646143		
92559852004	DW_DS	SM 2540C-2011	646143		
92559852005	DW_US	SM 2540C-2011	646143		
92559852006	CR-0.2	SM 2540C-2011	646764		
92559852007	CR-0.5	SM 2540C-2011	646764		
92559852001	CR+0.4	SM 2320B-2011	646357		
92559852002	CR+0.2	SM 2320B-2011	646357		
92559852003	CR-0.1	SM 2320B-2011	646357		
92559852004	DW_DS	SM 2320B-2011	646357		
92559852005	DW_US	SM 2320B-2011	646357		
92559852006	CR-0.2	SM 2320B-2011	646357		
92559852007	CR-0.5	SM 2320B-2011	646357		
92559852001	CR+0.4	EPA 300.0 Rev 2.1 1993	646085		
92559852002	CR+0.2	EPA 300.0 Rev 2.1 1993	646085		
92559852003	CR-0.1	EPA 300.0 Rev 2.1 1993	646085		
92559852004	DW_DS	EPA 300.0 Rev 2.1 1993	646085		
92559852005	DW_US	EPA 300.0 Rev 2.1 1993	646085		
92559852006	CR-0.2	EPA 300.0 Rev 2.1 1993	646085		
92559852007	CR-0.5	EPA 300.0 Rev 2.1 1993	646085		

REPORT OF LABORATORY ANALYSIS

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

Section A Required Client Information:
Company: ARCADIS - Atlanta
Address: 2639 Peach Ferry Rd
Atlanta, GA 30339
Email: warren.johnson@arcadis.com
Phone: 678.485.5298
Requested Due Date: 5 day TAT

Section B Required Project Information:
Report To: Jolu Abraham, Allison Koerber, Ben Hodges
Copy To: Warren Johnson
Purchase Order #: SCS10392775
Project Name: Plant McDonough
Project #:

Section C Invoice Information:
Attention: Jolu Abraham
Company Name: GFC
Address:
Purchase Order:
Face Project Manager: Mayia Parks@arcadis.com
Face Profile #: 2239

Regulatory Agency
State / Location
GA

Page: 1 Of 1

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Dinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Analyses Test	Residual Chlorine (Y/N)					
				SAMPLE TYPE (G=GRAB C=COMP)	START DATE TIME					END DATE TIME	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Y/N		
1	CR + O.4			G	9/7/2021	NSL6								
2	CR + O.2			G	9/7/2021	1503								
3	CR - 0.1			G	9/7/2021	1508								
4	DW-D3			G	9/7/2021	1590								
6	DW-US			G	9/7/2021	1518								
8	CR - 0.2			G	9/7/2021	1523								
7	CR - 0.5			G	9/7/2021	1539								
9				G	9/7/2021									
10				G	9/7/2021									
11				G	9/7/2021									
12				G	9/7/2021									

DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	DATE	TIME	TEMP °C	Received on Ice (Y/N)	Custody Sealed / Cooled (Y/N)	Samples Intact (Y/N)
		<i>Von Williams</i>	9/7/21	1230	Ryan Williams	9/8/21	0912					
		<i>Von Williams</i>	9/8/21	1245	Charles [unclear]	9/21/21	1245					

W0#: 92559852

92559852

CCR App III¹, Boron, Calcium, Chloride, Florida Statute, TDS
Major Ions² - Mg, Na, K, total alkalinity, bicarbonate alkalinity

SAMPLER NAME AND SIGNATURE
REGISTRATION NUMBER:
SIGNATURE OF SAMPLER:
DATE SIGNED: 9-7-21



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcaadis

Project #:

WO# : 92559852

PM: MP

Due Date: 09/15/21

CLIENT: GA-ArcadAt1

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *9/13/21*
CS

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 1.6 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92559852

PM: MP

Due Date: 09/15/21

CLIENT: GA-ArcadAt I

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	2																											
2	2																											
3	2																											
4	2																											
5	2																											
6	2																											
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

APPENDIX B

Analytical Results
January 2022

March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 20, 2022 and January 28, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company

Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583603001	DGWA-70A	Water	01/18/22 16:35	01/20/22 08:45
92583603002	DGWA-71	Water	01/18/22 16:25	01/20/22 08:45
92583603003	DGWA-53	Water	01/28/22 10:09	01/28/22 15:32

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583603001	DGWA-70A	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583603002	DGWA-71	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583603003	DGWA-53	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Sample: DGWA-70A		Lab ID: 92583603001		Collected: 01/18/22 16:35		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 13:59		
pH	5.50	Std. Units			1		01/20/22 13:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.7	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:06	7440-09-7	
Sodium	3.5	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:06	7440-23-5	
Calcium	6.1	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:06	7440-70-2	
Magnesium	2.4	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:06	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:20	7440-36-0	
Arsenic	0.0046J	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:20	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:20	7440-39-3	
Beryllium	0.000092J	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:20	7440-41-7	
Boron	0.024J	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	54.0	mg/L	10.0	10.0	1		01/25/22 16:17		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	27.0	mg/L	5.0	1.8	1		01/26/22 15:08		
Alkalinity,Bicarbonate (CaCO3)	27.0	mg/L	5.0	1.8	1		01/26/22 15:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 15:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.9	mg/L	1.0	0.60	1		01/21/22 19:56	16887-00-6	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Sample: DGWA-70A **Lab ID: 92583603001** Collected: 01/18/22 16:35 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 19:56	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		01/21/22 19:56	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

Sample: DGWA-71		Lab ID: 92583603002		Collected: 01/18/22 16:25		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 13:59		
pH	5.51	Std. Units			1		01/20/22 13:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	0.66	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:11	7440-09-7	
Sodium	9.1	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:11	7440-23-5	
Calcium	6.6	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:11	7440-70-2	
Magnesium	0.93	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:11	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:26	7440-36-0	
Arsenic	0.0054	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:26	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:26	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:26	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:26	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	76.0	mg/L	10.0	10.0	1		01/25/22 16:17		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	22.5	mg/L	5.0	1.8	1		01/26/22 15:12		
Alkalinity,Bicarbonate (CaCO ₃)	22.5	mg/L	5.0	1.8	1		01/26/22 15:12		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 15:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.9	mg/L	1.0	0.60	1		01/21/22 21:06	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Sample: DGWA-71 **Lab ID: 92583603002** Collected: 01/18/22 16:25 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 21:06	16984-48-8	
Sulfate	6.3	mg/L	1.0	0.50	1		01/21/22 21:06	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Sample: DGWA-53		Lab ID: 92583603003		Collected: 01/28/22 10:09		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/28/22 16:15		
pH	6.35	Std. Units			1		01/28/22 16:15		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.2	mg/L	0.20	0.15	1	02/02/22 14:04	02/04/22 00:40	7440-09-7	
Magnesium	6.9	mg/L	0.050	0.012	1	02/02/22 14:04	02/04/22 00:40	7439-95-4	
Sodium	8.9	mg/L	1.0	0.58	1	02/02/22 14:04	02/04/22 14:03	7440-23-5	
Calcium	19.5	mg/L	1.0	0.12	1	02/02/22 14:04	02/04/22 14:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/22 09:47	02/01/22 16:34	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 16:34	7440-38-2	
Barium	0.068	mg/L	0.0050	0.00067	1	02/01/22 09:47	02/01/22 16:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/22 09:47	02/01/22 16:34	7440-41-7	
Boron	0.062	mg/L	0.040	0.0086	1	02/01/22 09:47	02/01/22 16:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/22 09:47	02/01/22 16:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 16:34	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00039	1	02/01/22 09:47	02/01/22 16:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/22 09:47	02/01/22 16:34	7439-92-1	
Lithium	0.0091J	mg/L	0.030	0.00073	1	02/01/22 09:47	02/01/22 16:34	7439-93-2	
Molybdenum	0.026	mg/L	0.010	0.00074	1	02/01/22 09:47	02/01/22 16:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/22 09:47	02/01/22 16:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/22 09:47	02/01/22 16:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	155	mg/L	10.0	10.0	1		02/03/22 12:41		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	82.9	mg/L	5.0	1.8	1		02/02/22 22:05		
Alkalinity,Bicarbonate (CaCO3)	82.9	mg/L	5.0	1.8	1		02/02/22 22:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 22:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		02/04/22 18:01	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWA-53 Lab ID: 92583603003 Collected: 01/28/22 10:09 Received: 01/28/22 15:32 Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.080J	mg/L	0.10	0.050	1		02/04/22 18:01	16984-48-8	
Sulfate	13.1	mg/L	1.0	0.50	1		02/04/22 18:01	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 673587 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3525717 Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 14:07	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 14:07	
Potassium	mg/L	ND	0.20	0.15	01/25/22 14:07	
Sodium	mg/L	ND	1.0	0.58	01/25/22 14:07	

LABORATORY CONTROL SAMPLE: 3525718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525719 3525720

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.7	1	1	11.9	11.8	118	113	75-125	0	20
Magnesium	mg/L	3.8	1	1	4.9	4.9	108	109	75-125	0	20
Potassium	mg/L	2.5	1	1	3.6	3.7	111	114	75-125	1	20
Sodium	mg/L	8.2	1	1	9.1	9.3	91	106	75-125	2	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 675554 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603003

METHOD BLANK: 3535646 Matrix: Water
Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/03/22 22:50	
Magnesium	mg/L	ND	0.050	0.012	02/03/22 22:50	
Potassium	mg/L	ND	0.20	0.15	02/03/22 22:50	
Sodium	mg/L	ND	1.0	0.58	02/03/22 22:50	

LABORATORY CONTROL SAMPLE: 3535647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	112	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535648 3535649

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583955009	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	163	1	1	175	172	1180	964	75-125	1	20 M1
Magnesium	mg/L	27.8	1	1	30.1	30.0	226	216	75-125	0	20 M1
Potassium	mg/L	8.7	1	1	10.4	10.3	170	157	75-125	1	20 M1
Sodium	mg/L	19.7	1	1	23.0	22.8	331	308	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 673617 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3525846 Matrix: Water
Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/25/22 18:39	
Arsenic	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Barium	mg/L	ND	0.0050	0.00067	01/25/22 18:39	
Beryllium	mg/L	ND	0.00050	0.000054	01/25/22 18:39	
Boron	mg/L	ND	0.040	0.0086	01/25/22 18:39	
Cadmium	mg/L	ND	0.00050	0.00011	01/25/22 18:39	
Chromium	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Cobalt	mg/L	ND	0.0050	0.00039	01/25/22 18:39	
Lead	mg/L	ND	0.0010	0.00089	01/25/22 18:39	
Lithium	mg/L	ND	0.030	0.00073	01/25/22 18:39	
Molybdenum	mg/L	ND	0.010	0.00074	01/25/22 18:39	
Selenium	mg/L	ND	0.0050	0.0014	01/25/22 18:39	
Thallium	mg/L	ND	0.0010	0.00018	01/25/22 18:39	

LABORATORY CONTROL SAMPLE: 3525847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525848 3525849

Parameter	Units	92583585002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	108	108	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Parameter	Units	3525848		3525849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	102	107	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.092	98	92	75-125	6	20		
Boron	mg/L	ND	1	1	0.99	0.91	99	90	75-125	9	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0085J	0.1	0.1	0.11	0.10	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 675122 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603003

METHOD BLANK: 3533656 Matrix: Water
Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/01/22 13:34	
Arsenic	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Barium	mg/L	ND	0.0050	0.00067	02/01/22 13:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/01/22 13:34	
Boron	mg/L	ND	0.040	0.0086	02/01/22 13:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/01/22 13:34	
Chromium	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/01/22 13:34	
Lead	mg/L	ND	0.0010	0.00089	02/01/22 13:34	
Lithium	mg/L	ND	0.030	0.00073	02/01/22 13:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/01/22 13:34	
Selenium	mg/L	ND	0.0050	0.0014	02/01/22 13:34	
Thallium	mg/L	ND	0.0010	0.00018	02/01/22 13:34	

LABORATORY CONTROL SAMPLE: 3533657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	115	80-120	
Cadmium	mg/L	0.1	0.11	106	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533658 3533659

Parameter	Units	92585102002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Parameter	Units	3533658		3533659		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92585102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	23.1 ug/L	0.1	0.1	0.13	0.13	107	105	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20		
Boron	mg/L	ND	1	1	1.1	1.1	113	109	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20		
Chromium	mg/L	47.0 ug/L	0.1	0.1	0.15	0.16	107	112	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	105	109	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch: 675274	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002, 92583603003

METHOD BLANK: 3534212 Matrix: Water

Associated Lab Samples: 92583603001, 92583603002, 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/02/22 12:18	

LABORATORY CONTROL SAMPLE: 3534213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3534214 3534215

Parameter	Units	3534214		3534215		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	0.50 ug/L	0.0025	0.0025	0.0027	0.0025	89	80	75-125	9	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch: 673706

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3526393

Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/25/22 16:16	

LABORATORY CONTROL SAMPLE: 3526394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3526395

Parameter	Units	92583263001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	308	310	1	25	

SAMPLE DUPLICATE: 3526396

Parameter	Units	92583585002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	129	123	5	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 675783	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603003

METHOD BLANK: 3536822 Matrix: Water

Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/03/22 12:37	

LABORATORY CONTROL SAMPLE: 3536823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3536824

Parameter	Units	92584785018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	288	5	25	

SAMPLE DUPLICATE: 3536825

Parameter	Units	92583603003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	146	6	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch: 795578

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 4230575

Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/26/22 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 4230576

4230577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.1	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230578

4230579

Parameter	Units	10595480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	21.7	40	40	61.1	59.0	99	93	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230580

4230581

Parameter	Units	92583585001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	51.0	40	40	91.2	91.1	100	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 796923 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583603003

METHOD BLANK: 4235799 Matrix: Water
Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:34	

LABORATORY CONTROL SAMPLE & LCSD: 4235800 4235801

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.2	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235802 4235803

Parameter	Units	92583953027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	5.3	40	40	43.7	43.4	96	95	80-120	1	20	

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REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch:	673024	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3522867 Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/21/22 19:29	
Fluoride	mg/L	ND	0.10	0.050	01/21/22 19:29	
Sulfate	mg/L	ND	1.0	0.50	01/21/22 19:29	

LABORATORY CONTROL SAMPLE: 3522868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522869 3522870

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583603001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.9	50	50	59.6	60.4	115	117	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	114	115	90-110	1	10	M1	
Sulfate	mg/L	ND	50	50	57.2	57.9	114	116	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522871 3522872

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583486008	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	9.5	50	50	65.5	65.6	112	112	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	3.2	3.2	126	125	90-110	1	10	M1	
Sulfate	mg/L	65.6	50	50	104	101	77	70	90-110	3	10	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

QC Batch: 675484 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583603003

METHOD BLANK: 3535178 Matrix: Water
Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/04/22 12:13	
Fluoride	mg/L	ND	0.10	0.050	02/04/22 12:13	
Sulfate	mg/L	ND	1.0	0.50	02/04/22 12:13	

LABORATORY CONTROL SAMPLE: 3535179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535180 3535181

Parameter	Units	92585451002		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	65.5	50	50	50	101	102	71	74	90-110	1	10	M1
Fluoride	mg/L	0.46	2.5	2.5	2.5	2.9	2.9	97	97	90-110	0	10	
Sulfate	mg/L	122	50	50	50	169	170	94	96	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535182 3535183

Parameter	Units	92584785016		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	4.9	50	50	50	57.1	56.8	104	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	2.5	100	100	90-110	0	10	
Sulfate	mg/L	89.9	50	50	50	117	117	54	55	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92583603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583603001	DGWA-70A				
92583603002	DGWA-71				
92583603003	DGWA-53				
92583603001	DGWA-70A	EPA 3010A	673587	EPA 6010D	673656
92583603002	DGWA-71	EPA 3010A	673587	EPA 6010D	673656
92583603003	DGWA-53	EPA 3010A	675554	EPA 6010D	675629
92583603001	DGWA-70A	EPA 3005A	673617	EPA 6020B	673660
92583603002	DGWA-71	EPA 3005A	673617	EPA 6020B	673660
92583603003	DGWA-53	EPA 3005A	675122	EPA 6020B	675233
92583603001	DGWA-70A	EPA 7470A	675274	EPA 7470A	675501
92583603002	DGWA-71	EPA 7470A	675274	EPA 7470A	675501
92583603003	DGWA-53	EPA 7470A	675274	EPA 7470A	675501
92583603001	DGWA-70A	SM 2540C-2015	673706		
92583603002	DGWA-71	SM 2540C-2015	673706		
92583603003	DGWA-53	SM 2540C-2015	675783		
92583603001	DGWA-70A	SM 2320B	795578		
92583603002	DGWA-71	SM 2320B	795578		
92583603003	DGWA-53	SM 2320B	796923		
92583603001	DGWA-70A	EPA 300.0 Rev 2.1 1993	673024		
92583603002	DGWA-71	EPA 300.0 Rev 2.1 1993	673024		
92583603003	DGWA-53	EPA 300.0 Rev 2.1 1993	675484		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power CCR

WO#: **92583603**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/20/23
COH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 5.6/20/3.3 Correction Factor: 0.1
Add/Subtract (%)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4 5.7/2.1/3.4/4.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Mower Road
 Atlanta, GA 30338
 Phone: (404) 505-7238
 Requested Due Date: 10 Day TAT

Section B
 Requested Project Information:
 Report To: John Abraham
 Copy To: Odeur
 Project Name: Plant Modernization Upgrades West
 Project #: 18048821


Section C
 Invoice Information:
 Address: acshredco@acshredco.com
 Company Name:
 Project Manager: Nicole Debo
 POC Project #: 18048821
 POC Name:
 Regulatory Agency:
 State Location: GA

Page: 1 of 1

ITEM #	DATE	TIME	DATE	TIME	MATERIAL COMMENTS	REMOVED BY / LOCATION	DATE	TIME	ACCEPTED BY / LOCATION	DATE	TIME	SAMPLE COMMENTS
3			1/18/2022	16:35								
5			1/18/2022	16:25								
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

JOE WAGUESPACK / PW... DATE Signed: 1/20/22

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

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:
Georgia Power

Project:

WO#: 92583603

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

PM: NMG Due Date: 02/03/22
 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: UV 1-29-2

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 914 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.9

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

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

2/28/2022

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 of 1

Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2490 Kerner Road
 Atlanta, GA 30339
 Email: albanham@gaenvironment.com
 Phone: (404) 506-7239
 Fax: []
 Requested Due Date: 10 Day TAT

Section B

Requested Project Information:

Report To: Jiji Albanham
 Copy To: Collier
 Project Name: Plant McDonough Upgrade/Wells
 Project #: 198949271

Section C

Invoice Information:

Attention: scstevens@gaenvironment.com
 Company Name: []
 Address: []
 Purchase Order #: []
 Price Quote: []
 Price Project Manager: Nicole D'Onofrio
 Project Profile #: []
 Regulatory Agency: []
 State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved - Ice H2SO4 HNO3 + Ice HCl NaOH + Zn Acetate Na2S2O3 Methanol Other	Analytes Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH = 6.35	
													WT
3	DCWV-53						6		App III/IV Total Metals Cl, F, BO4, TDS Radium 226/228 Mg, Na, K CO3+HCO2	N N N N N			
6							3						
6							3						
7													
8													
9													
10													
11													
12													
13													
14													
15													

<p>ADDITIONAL COMMENTS: []</p>	<p>RETURNS BY / AFFILIATION</p>	<p>DATE</p>	<p>TIME</p>	<p>ACCEPTED BY / AFFILIATION</p>	<p>DATE</p>	<p>TIME</p>	<p>SAMPLE CONDITIONS</p>
<p>[]</p>	<p>APC... Sample</p>	<p>1/28/22</p>	<p>15:32</p>	<p>DUCD</p>	<p>1-28-22</p>	<p>15:30</p>	<p>Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)</p>

DATE Signed: 1/28/22
 Date Manager / Sign: [Signature]

March 15, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH UPGRADIENT RAD
Pace Project No.: 92583500

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 20, 2022 and January 28, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Lacy Smith, ERM

Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT RAD
Pace Project No.: 92583500

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583500001	DGWA-70A	Water	01/18/22 16:35	01/20/22 08:45
92583500002	DGWA-71	Water	01/18/22 16:25	01/20/22 08:45
92583500003	DGWA-53	Water	01/28/22 10:09	01/28/22 15:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583500001	DGWA-70A	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583500002	DGWA-71	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583500003	DGWA-53	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-70A Lab ID: 92583500001 Collected: 01/18/22 16:35 Received: 01/20/22 08:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0285 ± 0.0770 (0.187) C:95% T:NA	pCi/L	02/14/22 09:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.23 ± 0.537 (0.892) C:69% T:78%	pCi/L	02/03/22 10:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.26 ± 0.614 (1.08)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Sample: DGWA-71 **Lab ID: 92583500002** Collected: 01/18/22 16:25 Received: 01/20/22 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.125 ± 0.0993 (0.171) C:93% T:NA	pCi/L	02/14/22 09:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.604 ± 0.414 (0.798) C:73% T:79%	pCi/L	02/03/22 10:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.729 ± 0.513 (0.969)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Sample: DGWA-53 **Lab ID: 92583500003** Collected: 01/28/22 10:09 Received: 01/28/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.925 ± 0.262 (0.175) C:96% T:NA	pCi/L	03/08/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.17 ± 0.441 (0.661) C:83% T:91%	pCi/L	03/07/22 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.10 ± 0.703 (0.836)	pCi/L	03/13/22 14:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 480682

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500001, 92583500002

METHOD BLANK: 2322658

Matrix: Water

Associated Lab Samples: 92583500001, 92583500002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.570 ± 0.392 (0.745) C:71% T:72%	pCi/L	02/03/22 10:11	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 486611	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500003

METHOD BLANK: 2353259 Matrix: Water

Associated Lab Samples: 92583500003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0325 ± 0.0552 (0.191) C:101% T:NA	pCi/L	03/08/22 08:21	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 480871

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500001, 92583500002

METHOD BLANK: 2323618

Matrix: Water

Associated Lab Samples: 92583500001, 92583500002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.165 ± 0.131 (0.240) C:84% T:NA	pCi/L	02/14/22 09:25	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 486656

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500003

METHOD BLANK: 2353491

Matrix: Water

Associated Lab Samples: 92583500003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.534 ± 0.356 (0.681) C:77% T:89%	pCi/L	03/07/22 11:50	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RAD
Pace Project No.: 92583500

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583500001	DGWA-70A	EPA 9315	480871		
92583500002	DGWA-71	EPA 9315	480871		
92583500003	DGWA-53	EPA 9315	486611		
92583500001	DGWA-70A	EPA 9320	480682		
92583500002	DGWA-71	EPA 9320	480682		
92583500003	DGWA-53	EPA 9320	486656		
92583500001	DGWA-70A	Total Radium Calculation	484431		
92583500002	DGWA-71	Total Radium Calculation	484431		
92583500003	DGWA-53	Total Radium Calculation	489943		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power CCR

WO#: **92583603**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/20/23
COE

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 5.6/20/3.3 Correction Factor: 0.1
Add/Subtract (%)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4 5.7/2.1/3.4/4.5

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



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

Section A
Requested Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2400 Merne Road
Atlanta, GA 30338
E-mail: jlabreave@ge.com
Phone: (404) 505-7238 Fax
Requested Due Date: 10 Day TAT

Section B
Requested Project Information:

Report To: Jodi Abraham
Copy To: Odeh
Purchase Order #:
Project Name: Plant Modernization Upgradation Work
Project #: 10044821

Section C
Invoice Information:

Address: ac@ge.com
Company Name:
Person:
Role:
Name:
Role:
Name:
Role:

ITEM #	DATE	TIME	WT	DATE	TIME	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	# OF CONTAINERS	Preservatives							Analytical Test					Residual Chlorine (Y/N)				
									Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	Y/N	Y/N	Y/N		Y/N	Y/N		
1						DGM-70A	G	6	3	3								X	X	X	X	X		pH = 8.50	
2						DGM-71	G	6	3	3								X	X	X	X	X		pH = 8.91	
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									

TEMP In C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

DATE Signed: 1/20/22


Jodi Abraham

1/20/22 08:15

J. Wagner

1/20/22 08:15

JOE WAGNER/SPW...

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project:

WO#: 92583603

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

PM: NMG Due Date: 02/03/22
 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: UV 1-29-22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 914 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.9

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

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2490 Lanier Road
Atlanta GA 30339

Email: albertant@gepower.com
Phone: (404) 506-7239
Requested Due Date: 10 Day TAT

Fax: [blank]

Section B Requested Project Information:

Report To: Jijie Abraham
Copy To: Colter

Project Name: Part 1 McDonough Upgradient Wells
Project #: 198949271

Purchase Order #: [blank]

Section C Invoice Information:

Attention: scstevens@scouthemco.com
Company Name: [blank]

Address: [blank]
City/State: [blank]

Project Manager: Nicole D'Onofrio
Paco Profile #: [blank]

Page: 1 of 1

Regulatory Agency: [blank]
State / Location: GA

ITEM #	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYSES TEST					Residual Chlorine (Y/N)	PH = 6.35
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV Total Metals	Cl, F, BO4, TDS	Radium 226/228		
3	DCWV-S3	WT	1/28/2022	10:09														
6																		
9																		
11																		
12																		
13																		
14																		
15																		

ADDITIONAL COMMENTS: [blank]

REQUISITIONED BY / AFFILIATION: [blank]

DATE: 1/28/22

TIME: 5:32

ACCEPTED BY / AFFILIATION: DWCD

DATE: 1-28-22

TIME: 15:30

DATE SIGNED: 1/28/22

Signature: [Handwritten Signature]

TEMP In C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/3/2022
Worklist: 64792
Matrix: DW



Method Blank Assessment	
MB Sample ID	2323618
MB Concentration:	0.165
MB Counting Uncertainty:	0.128
MB MDC:	0.240
MB Numerical Performance Indicator:	2.52
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS64792	LCS64792
Count Date:	2/14/2022	2/14/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.030	24.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.520	0.512
Target Conc. (pCi/L, g, F):	4.619	4.693
Uncertainty (Calculated):	0.055	0.056
Result (pCi/L, g, F):	5.157	4.566
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.513	0.481
Numerical Performance Indicator:	2.04	-0.56
Percent Recovery:	111.66%	97.07%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCSD (Y or N)?	
	LCS64792	LCS64792
Sample I.D.:	92583570002	92583570002DUP
Duplicate Sample I.D.:	92583570002DUP	92583570002DUP
Sample Result (pCi/L, g, F):	0.033	0.033
Sample Result Counting Uncertainty (pCi/L, g, F):	0.116	0.116
Sample Duplicate Result (pCi/L, g, F):	0.106	0.106
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.084	0.084
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	1.675	1.675
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	13.98%	105.06%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail
% RPD Limit:	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

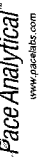
***Batch must be re-prepped due to unacceptable precision.

results < mdc, N/A
Nuz 2/22/22

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample ID: Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery Limits: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/11/2022
Worklist: 64779
Matrix: WT

MB Sample ID	2322658
MB concentration:	0.570
MB 2 Sigma CSU:	0.392
MB MDC:	0.745
MB Numerical Performance Indicator:	2.85
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS64779	LCS64779
Count Date:	2/3/2022	
Spike ID:	21-029	
Decay Corrected Spike Concentration (pCi/mL):	36.476	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.813	
Target Conc. (pCi/L, g, F):	4.488	
Uncertainty (Calculated):	0.220	
Result (pCi/L, g, F):	4.867	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.075	
Numerical Performance Indicator:	0.68	
Status vs Numerical Indicator:	108/45%	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	Pass	
Lower % Recovery Limits:	135%	
	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample ID:	See Below ##
Duplicate Sample ID:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	1/11/2022	
Sample I.D.:	92583991001	
Sample MS I.D.:	92583991002	
Sample MSD I.D.:	92583991003	
Spike I.D.:	21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.752	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.20	
MS Target Conc. (pCi/L, g, F):	9.084	
MSD Aliquot (L, g, F):	0.808	
MSD Target Conc. (pCi/L, g, F):	9.103	
MS Spike Uncertainty (calculated):	0.445	
MSD Spike Uncertainty (calculated):	0.446	
Sample Result:	0.179	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.351	
Sample Matrix Spike Result:	11.356	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.218	
Sample Matrix Spike Duplicate Result:	10.605	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.096	
MS Numerical Performance Indicator:	1.792	
MSD Numerical Performance Indicator:	1.194	
MS Percent Recovery:	123.05%	
MSD Percent Recovery:	114.53%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D.: 92583991001 Sample MS I.D.: 92583991002 Sample MSD I.D.: 92583991003 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): 2.218 Sample Matrix Spike Duplicate Result: 10.605 Duplicate Numerical Performance Indicator: 0.483 (Based on the Percent Recoveries) MS/MSD Duplicate RPD: 7.17% MS/MSD Duplicate Status vs Numerical Indicator: Pass MS/MSD Duplicate Status vs RPD: Pass % RPD Limit: 36%
---	--

2/12/2022 VAL

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 3/1/2022
Worklist: 65294
Matrix: DW

Method Blank Assessment	
MB Sample ID	2353259
MB concentration:	-0.033
M/B Counting Uncertainty:	0.055
MB MDC:	0.191
MB Numerical Performance Indicator:	-1.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		3/8/2022	LCS/D65294
Spike I.D.:		19-033	3/8/2022
Decay Corrected Spike Concentration (pCi/mL):		24.029	24.029
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.503	0.506
Target Conc. (pCi/L, g, F):		4.777	4.752
Uncertainty (Calculated):		0.057	0.057
Result (pCi/L, g, F):		4.910	4.441
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		0.508	0.466
Numerical Performance Indicator:		0.51	-1.30
Percent Recovery:		102.79%	93.46%
Status vs Numerical Indicator:		N/A	N/A
Status vs Recovery:		Pass	Pass
Upper % Recovery Limits:		125%	125%
Lower % Recovery Limits:		75%	75%

Duplicate Sample Assessment		LCS/D65294	92587080025
Sample I.D.:		LCS65294	92587080025
Duplicate Sample I.D.:		LCS65294	92587080025DUP
Sample Result (pCi/L, g, F):		4.910	0.708
Sample Result Counting Uncertainty (pCi/L, g, F):		0.508	0.212
Sample Duplicate Result (pCi/L, g, F):		4.441	0.789
Sample Duplicate Counting Uncertainty (pCi/L, g, F):		0.466	0.203
Are sample and/or duplicate results below RL?		NO	See Below ##
Duplicate Numerical Performance Indicator:		1.334	-0.540
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:		9.51%	10.80%
Duplicate Status vs Numerical Indicator:		N/A	N/A
Duplicate Status vs RPD:		Pass	Pass
% RPD Limit:		25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result Counting Uncertainty (pCi/L, g, F):			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JSM
Date: 3/3/2022
Worklist: 65309
Matrix: **WT**

Method Blank Assessment	
MB Sample ID	2353491
MB concentration:	0.534
MB 2 Sigma CSU:	0.356
MB MDC:	0.681
MB Numerical Performance Indicator:	2.94
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
LCS65309	LCS65309
Count Date:	3/7/2022
Spike I.D.:	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.090
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.810
Target Conc. (pCi/L, g, F):	4.454
Uncertainty (Calculated):	0.218
Result (pCi/L, g, F):	4.392
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.963
Numerical Performance Indicator:	-0.12
Percent Recovery:	98.60%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS65309
Duplicate Sample I.D.:	LCS65309
Sample Result (pCi/L, g, F):	4.392
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.963
Sample Duplicate Result (pCi/L, g, F):	4.287
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.935
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.153
Duplicate Numerical Performance Indicator RPD:	3.03%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD 1	
MS/MSD 2	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator RPD:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

February 02, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

Dear Joju Abraham:

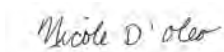
Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.

Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583957001	B-62	Water	01/20/22 15:05	01/21/22 15:32
92583957002	DUP-2	Water	01/20/22 00:00	01/21/22 15:32
92583957003	B-100	Water	01/21/22 10:15	01/21/22 15:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583957001	B-62	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583957002	DUP-2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583957003	B-100	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

Sample: B-62		Lab ID: 92583957001		Collected: 01/20/22 15:05		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:50		
pH	6.32	Std. Units			1		01/24/22 09:50		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.8	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:30	7440-09-7	
Sodium	10.8	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:30	7440-23-5	
Calcium	36.3	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:30	7440-70-2	
Magnesium	5.6	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:30	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:32	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:32	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:32	7440-39-3	
Beryllium	0.00015J	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:32	7440-41-7	
Boron	0.077	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:32	7439-92-1	
Lithium	0.0092J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 10:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	187	mg/L	10.0	10.0	1		01/26/22 17:46		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	81.0	mg/L	5.0	1.8	1		01/25/22 17:38		
Alkalinity,Bicarbonate (CaCO ₃)	81.0	mg/L	5.0	1.8	1		01/25/22 17:38		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 17:38		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		01/25/22 20:47	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: B-62									
Lab ID: 92583957001									
Collected: 01/20/22 15:05									
Received: 01/21/22 15:32									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.099J	mg/L	0.10	0.050	1		01/25/22 20:47	16984-48-8	
Sulfate	50.3	mg/L	1.0	0.50	1		01/25/22 20:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

Sample: DUP-2		Lab ID: 92583957002		Collected: 01/20/22 00:00	Received: 01/21/22 15:32	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:35	7440-09-7		
Sodium	10.9	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:35	7440-23-5		
Calcium	35.3	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:35	7440-70-2		
Magnesium	5.6	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:35	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:38	7440-36-0		
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:38	7440-38-2		
Barium	0.022	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:38	7440-39-3		
Beryllium	0.00015J	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:38	7440-41-7		
Boron	0.077	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:38	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:38	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:38	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:38	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:38	7439-92-1		
Lithium	0.0090J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:38	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:38	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 10:39	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	191	mg/L	10.0	10.0	1		01/26/22 17:46			
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO ₃	82.4	mg/L	5.0	1.8	1		01/25/22 17:43			
Alkalinity, Bicarbonate (CaCO ₃)	82.4	mg/L	5.0	1.8	1		01/25/22 17:43			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 17:43			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	5.7	mg/L	1.0	0.60	1		01/25/22 21:57	16887-00-6		
Fluoride	0.11	mg/L	0.10	0.050	1		01/25/22 21:57	16984-48-8		
Sulfate	50.2	mg/L	1.0	0.50	1		01/25/22 21:57	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

Sample: B-100		Lab ID: 92583957003		Collected: 01/21/22 10:15		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:51		
pH	5.23	Std. Units			1		01/24/22 09:51		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.5	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:40	7440-09-7	
Sodium	28.3	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:40	7440-23-5	
Calcium	49.9	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:40	7440-70-2	
Magnesium	49.7	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:40	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:44	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:44	7440-39-3	
Beryllium	0.00053	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:44	7440-41-7	
Boron	0.24	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:44	7440-42-8	
Cadmium	0.00059	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:44	7440-47-3	
Cobalt	0.034	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:44	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 10:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	638	mg/L	20.0	20.0	1		01/28/22 10:30		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	32.2	mg/L	5.0	1.8	1		01/25/22 17:47		
Alkalinity, Bicarbonate (CaCO ₃)	32.2	mg/L	5.0	1.8	1		01/25/22 17:47		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 17:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	11.3	mg/L	1.0	0.60	1		01/25/22 22:39	16887-00-6	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Sample: B-100 **Lab ID: 92583957003** Collected: 01/21/22 10:15 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 22:39	16984-48-8	
Sulfate	344	mg/L	8.0	4.0	8		01/26/22 12:13	14808-79-8	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

QC Batch: 673587 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 3525717 Matrix: Water
Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 14:07	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 14:07	
Potassium	mg/L	ND	0.20	0.15	01/25/22 14:07	
Sodium	mg/L	ND	1.0	0.58	01/25/22 14:07	

LABORATORY CONTROL SAMPLE: 3525718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525719 3525720

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.7	1	1	11.9	11.8	118	113	75-125	0	20
Magnesium	mg/L	3.8	1	1	4.9	4.9	108	109	75-125	0	20
Potassium	mg/L	2.5	1	1	3.6	3.7	111	114	75-125	1	20
Sodium	mg/L	8.2	1	1	9.1	9.3	91	106	75-125	2	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 673617

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 3525846

Matrix: Water

Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/25/22 18:39	
Arsenic	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Barium	mg/L	ND	0.0050	0.00067	01/25/22 18:39	
Beryllium	mg/L	ND	0.00050	0.000054	01/25/22 18:39	
Boron	mg/L	ND	0.040	0.0086	01/25/22 18:39	
Cadmium	mg/L	ND	0.00050	0.00011	01/25/22 18:39	
Chromium	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Cobalt	mg/L	ND	0.0050	0.00039	01/25/22 18:39	
Lead	mg/L	ND	0.0010	0.00089	01/25/22 18:39	
Lithium	mg/L	ND	0.030	0.00073	01/25/22 18:39	
Molybdenum	mg/L	ND	0.010	0.00074	01/25/22 18:39	
Selenium	mg/L	ND	0.0050	0.0014	01/25/22 18:39	
Thallium	mg/L	ND	0.0010	0.00018	01/25/22 18:39	

LABORATORY CONTROL SAMPLE: 3525847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525848

3525849

Parameter	Units	92583585002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	108	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Parameter	Units	3525848		3525849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	102	107	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.092	98	92	75-125	6	20		
Boron	mg/L	ND	1	1	0.99	0.91	99	90	75-125	9	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0085J	0.1	0.1	0.11	0.10	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 674967

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 3532893

Matrix: Water

Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/01/22 10:19	

LABORATORY CONTROL SAMPLE: 3532894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532895 3532896

Parameter	Units	3532895		3532896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0021	0.0024	85	96	75-125	13	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 674001

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583957001, 92583957002

METHOD BLANK: 3527668

Matrix: Water

Associated Lab Samples: 92583957001, 92583957002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/26/22 17:40	

LABORATORY CONTROL SAMPLE: 3527669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3527670

Parameter	Units	92583746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	215	0	25	

SAMPLE DUPLICATE: 3527671

Parameter	Units	92583955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	177	164	8	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 674255

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583957003

METHOD BLANK: 3528806

Matrix: Water

Associated Lab Samples: 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

QC Batch: 795302 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 4229437 Matrix: Water
Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	

LABORATORY CONTROL SAMPLE & LCSD: 4229438 4229439

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	40.6	43.0	102	108	90-110	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229440 4229441

Parameter	Units	10595205001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	24.5	40	40	57.6	55.0	83	76	80-120	5	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229637 4229638

Parameter	Units	10594190002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	330	40	40	368	367	94	92	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 673554

Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583957001

METHOD BLANK: 3525639

Matrix: Water

Associated Lab Samples: 92583957001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 13:04	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 13:04	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 13:04	

LABORATORY CONTROL SAMPLE: 3525640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525641 3525642

Parameter	Units	92583953001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	2.0	50	50	53.1	53.7	102	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	0	10		
Sulfate	mg/L	101	50	50	145	146	89	91	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525643 3525644

Parameter	Units	92583953001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	2.0	50	50	50.2	52.2	96	101	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.2	2.6	88	102	90-110	15	10	M1, R1	
Sulfate	mg/L	101	50	50	49.6	48.9	-102	-104	90-110	1	10	M1	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4
Pace Project No.: 92583957

QC Batch: 673556 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583957002, 92583957003

METHOD BLANK: 3525649 Matrix: Water

Associated Lab Samples: 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 21:01	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 21:01	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 21:01	

LABORATORY CONTROL SAMPLE: 3525650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.4	105	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525651 3525652

Parameter	Units	92583957002		3525651		3525652		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.7	5.7	50	50	57.7	57.3	104	103	90-110	1	10	
Fluoride	mg/L	0.11	0.11	2.5	2.5	2.5	2.5	95	96	90-110	1	10	
Sulfate	mg/L	50.2	50.2	50	50	89.5	89.3	79	78	90-110	0	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525653 3525654

Parameter	Units	92583957003		3525653		3525654		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	11.3	11.3	50	50	101	94.6	179	167	90-110	7	10 M1	
Fluoride	mg/L	ND	ND	2.5	2.5	2.5	2.5	98	97	90-110	1	10	
Sulfate	mg/L	344	344	50	50	92.4	91.3	-504	-506	90-110	1	10 M1	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583957001	B-62				
92583957003	B-100				
92583957001	B-62	EPA 3010A	673587	EPA 6010D	673656
92583957002	DUP-2	EPA 3010A	673587	EPA 6010D	673656
92583957003	B-100	EPA 3010A	673587	EPA 6010D	673656
92583957001	B-62	EPA 3005A	673617	EPA 6020B	673660
92583957002	DUP-2	EPA 3005A	673617	EPA 6020B	673660
92583957003	B-100	EPA 3005A	673617	EPA 6020B	673660
92583957001	B-62	EPA 7470A	674967	EPA 7470A	675135
92583957002	DUP-2	EPA 7470A	674967	EPA 7470A	675135
92583957003	B-100	EPA 7470A	674967	EPA 7470A	675135
92583957001	B-62	SM 2540C-2015	674001		
92583957002	DUP-2	SM 2540C-2015	674001		
92583957003	B-100	SM 2540C-2015	674255		
92583957001	B-62	SM 2320B	795302		
92583957002	DUP-2	SM 2320B	795302		
92583957003	B-100	SM 2320B	795302		
92583957001	B-62	EPA 300.0 Rev 2.1 1993	673554		
92583957002	DUP-2	EPA 300.0 Rev 2.1 1993	673556		
92583957003	B-100	EPA 300.0 Rev 2.1 1993	673556		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92583957**



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 1/21/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) ± 0.2

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project # **W0# : 92583957**
 PM: NMG Due Date: 02/04/22
 CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		2	1																										
3		2	1																										
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A

Required Client Information:
 Company: Georgia Power - Oak Creek Distribution Residuals
 Address: 2480 Mariner Road
 Atlanta, GA 30339
 Contact: jlabalan@gepower.com
 Phone: (404) 506-7239
 Fax: (404) 506-7239
 Requested Date: 10 Day TAT

Required Project Information:
 Report To: Jon Abraham
 Copy To: Golder
 Purchase Order #:
 Project Name: Plant MacDonough AP-1 AP-2-3-4
 Assessment Monitor Network
 Project #: 185849521

Invoice Information:
 Attention: scatinovce@gepower.com
 Company Name:
 Address:
 State Project Manager: Nicole D'Oleo
 Price Profile #:

Section B

Required Analyte Filtered (Y/N)

MATRIX
 Drinking Water
 Wastewater
 Surface Water
 Rainwater
 Groundwater
 Other
 Trace

CODE
 DW
 WW
 SW
 RW
 GW
 OT
 TS

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE: G=GRAB C=COMP

DATE TIME
 DATE: 1/20/2022 15:05
 DATE: 1/20/2022
 DATE: 1/21/2022 10:12

SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS: 6
 Unpreserved Ice
 H2SO4
 HNO3 + Ice
 HCl
 NaOH + Zn Acetate
 Na2S2O3
 Methanol
 Other

Analyses Test
 App III/IV Total Metals (N)
 Cl, F, SO4, TDS (N)
 Radium 226/228 (N)
 Mg, Na, K (N)
 CO3+HCO2 (N)

Requested Analyte Filtered (Y/N)

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	State Location																					
									H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol					Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2															
1	B-62	G	G	G	1/20/2022	15:05		6	3	3				X	X	X	X																						
4	Dup-2	G	G	G	1/20/2022			6	3	3				X	X	X	X																						
6	B-100	G	G	G	1/21/2022	10:12		6	3	3				X	X	X	X																						
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							
13																																							
14																																							
ADDITIONAL COMMENTS																																							
RELINQUISHED BY / AFFILIATION:																																							
DATE: 1/21/22																																							
ACCEPTED BY / AFFILIATION:																																							
DATE: 1/21/22																																							
TEMP in C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)																																	

State: Wagespack / Yu...
 DATE Signed: 1/21/22

March 02, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-1, AP-2, 3/4 RAD
Pace Project No.: 92583952

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM

Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD
Pace Project No.: 92583952

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD
Pace Project No.: 92583952

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583952001	B-62	Water	01/20/22 15:05	01/21/22 15:32
92583952002	DUP-2	Water	01/20/22 00:00	01/21/22 15:32
92583952003	B-100	Water	01/21/22 10:12	01/21/22 15:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583952001	B-62	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583952002	DUP-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583952003	B-100	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Sample: B-62 **Lab ID: 92583952001** Collected: 01/20/22 15:05 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.869 ± 0.295 (0.267) C:94% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.844 ± 0.453 (0.793) C:68% T:81%	pCi/L	02/14/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.748 (1.06)	pCi/L	02/17/22 13:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Sample: DUP-2 **Lab ID: 92583952002** Collected: 01/20/22 00:00 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.493 ± 0.228 (0.284) C:94% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.244 ± 0.386 (0.837) C:65% T:88%	pCi/L	02/14/22 16:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.737 ± 0.614 (1.12)	pCi/L	02/17/22 13:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Sample: B-100 **Lab ID: 92583952003** Collected: 01/21/22 10:12 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0921 ± 0.125 (0.262) C:95% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.677 ± 0.431 (0.810) C:70% T:85%	pCi/L	02/14/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.769 ± 0.556 (1.07)	pCi/L	02/17/22 13:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

QC Batch: 481463	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583952001, 92583952002, 92583952003

METHOD BLANK: 2326512 Matrix: Water

Associated Lab Samples: 92583952001, 92583952002, 92583952003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00174 ± 0.0889 (0.253) C:96% T:NA	pCi/L	02/16/22 10:30	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

QC Batch:	482061	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583952001, 92583952002, 92583952003

METHOD BLANK: 2330295 Matrix: Water

Associated Lab Samples: 92583952001, 92583952002, 92583952003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.129 ± 0.257 (0.566) C:88% T:86%	pCi/L	02/14/22 12:35	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD
Pace Project No.: 92583952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583952001	B-62	EPA 9315	481463		
92583952002	DUP-2	EPA 9315	481463		
92583952003	B-100	EPA 9315	481463		
92583952001	B-62	EPA 9320	482061		
92583952002	DUP-2	EPA 9320	482061		
92583952003	B-100	EPA 9320	482061		
92583952001	B-62	Total Radium Calculation	484619		
92583952002	DUP-2	Total Radium Calculation	484619		
92583952003	B-100	Total Radium Calculation	484619		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92583952



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 1/21/22*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

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

Cooler Temp:

3.7 Correction Factor: Add/Subtract (°C) *± 0.2*

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *3.9*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92583952

PM: NMG

Due Date: 02/11/22

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

CLIENT: GA-GA Power

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		2	1																										
3		2	1																										
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Georgia Power - Coal Combustion Residuals	Report To: Jon Abraham	Report To: Jon Abraham	Company Name: scanvecs23southern.com	Attention: scanvecs23southern.com	
Address: 2480 Mariner Road	City To: Golder	Purchase Order #:	Address:	Company Name:	
Atlanta, GA 30339					
email: j.abraham@southern.com					
Phone: (404) 506-7239					
Requested Due Date: 10 Day TAT	Project #: 168849821				

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Y/N	Requester Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLER CONDITIONS	
														Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
1	B-62	WT	G	G	1/20/2022	15:05		6	3	X	X	X	X		
4	Dup-2	WT	G	G	1/20/2022	-		6	3	X	X	X	X		
6	B-100	WT	G	G	1/21/2022	10:12		6	3	X	X	X	X		pH = 5.73
7															
8															
9															
10															
11															
12															
13															
14															

RELINQUISHED BY / AFFILIATION: *Jon Abraham* DATE: 1/21/22 TIME: 15:32
 ACCEPTED BY / AFFILIATION: *Nicole D'Onofrio* DATE: 1/21/22 TIME: 15:32

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

DATE Signed: 1/21/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/13/2022
Worklist: 64894
Matrix: DW

Method Blank Assessment	
MB Sample ID	2326512
MB concentration:	0.002
MB Counting Uncertainty:	0.089
MB MDC:	0.253
MB Numerical Performance Indicator:	0.04
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS64894	LCS64894
Count Date:	2/16/2022	2/16/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.030	24.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.508
Target Conc. (pCi/L, g, F):	4.690	4.732
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	4.731	5.146
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.601	0.615
Numerical Performance Indicator:	0.13	1.31
Percent Recovery:	100.88%	108.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS64894	LCS64894
Sample I.D.:	92563952001	92563952001DUP
Duplicate Sample I.D.:	92563952001	92563952001DUP
Sample Result (pCi/L, g, F):	0.601	0.266
Sample Duplicate Result (pCi/L, g, F):	5.146	0.721
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.615	0.272
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	-0.947	0.760
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.51%	18.57%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten: 2/17/22
LAM 2/17/22

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Gross Alpha and Gross Beta
 Analyst: ERT
 Date: 2/3/2022
 Batch ID: 64897
 Matrix: SL



Method Blank Assessment	
Gross Alpha	Gross Beta
2326583	
MB Sample ID	0.034
MB concentration:	0.105
MB 2 Sigma CSU:	0.237
MB MDC:	0.63
MB Numerical Performance Indicator:	Pass
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment			
LCSD (Y or N)?	N	Gross Alpha	Gross Beta
LCSS4897			
Count Date:	2/10/2022		
Spike I.D.:	21-047		
Spike Concentration (pCi/mL):	21-015GB		
Volume Used (mL):	29.847		
Aliquot Volume (L, g, F):	0.100		
Target Conc. (pCi/L, g, F):	1.000		
Uncertainty (Calculated):	2.985		
Result (pCi/L, g, F):	6.502		
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.054		
Numerical Performance Indicator:	2.545		
Status vs Numerical Indicator:	6.358		
Upper % Recovery Limits:	0.594		
Lower % Recovery Limits:	1.201		
Percent Recovery:	-1.45		
Status vs Recovery:	85.26%		
Upper % Recovery Limits:	97.79%		
Lower % Recovery Limits:	Pass		
	Pass		
	Pass		
	132.25%		
	45.00%		
	89.14%		

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
30459609001	
Duplicate Sample I.D.:	30459609001DUP
Sample Result (pCi/L, g, F):	425.473
Sample Duplicate Result (pCi/L, g, F):	95.621
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	19.150
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	352.767
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	105.524
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	20.766
Are sample and/or duplicate results below MDC?	See Below #
Duplicate Numerical Performance Indicator:	See Below #
Duplicate Status vs Numerical Indicator:	1.329
Duplicate RPD:	-0.687
Duplicate Status vs RPD:	18.68%
Duplicate Status vs RPD:	Pass
Duplicate Status vs RPD:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	34.00%
% RPD Limit:	28.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

OC
alioia

30459609001

Sample Matrix Spike Control Assessment		
Sample Collection Date:	Gross Alpha	Gross Beta
Sample I.D.:	1/11/2022	
Sample MS I.D.:	30459609001	
Sample MSD I.D.:	30459609001MS	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	21-047	21-015GB
Spike Volume Used in MS (mL):	29.847	65.145
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.048	0.048
MSD Aliquot (L, g, F):	123.847	270.311
MSD Target Conc. (pCi/L, g, F):		
Spike uncertainty (calculated):	2.229	1.297
Spike Duplicate uncertainty (calculated):		
Sample Result:	425.473	95.621
Sample Result 2 Sigma CSU (pCi/L, g, F):	82.801	19.150
Sample Matrix Spike Result:	482.860	397.174
Sample Matrix Spike Duplicate Result:	91.726	72.520
MS Numerical Performance Indicator:	-1.054	0.816
MS Numerical Performance Indicator:		
MS Percent Recovery:	46.34%	111.56%
MSD Percent Recovery:		
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	MS Low	Pass
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:	135.00%	130.00%
MS/MSD Lower % Recovery Limits:	55.00%	79.00%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	Gross Alpha	Gross Beta
Sample MS I.D.:		
Sample MSD I.D.:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
Duplicate Numerical Performance Indicator:		
(Based on the MS / MSD Recoveries) MS / MSD Duplicate RPD:		
MS / MSD Duplicate Status vs Numerical Indicator:		
MS / MSD Duplicate Status vs RPD:		
% RPD Limit:		

March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 27, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company

Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583953001	DGWC-2	Water	01/20/22 11:03	01/21/22 15:32
92583953002	DGWC-21	Water	01/20/22 16:13	01/21/22 15:32
92583953003	DGWC-22	Water	01/20/22 12:55	01/21/22 15:32
92583953004	DGWC-23	Water	01/20/22 10:55	01/21/22 15:32
92583953005	DGWC-42	Water	01/20/22 14:28	01/21/22 15:32
92583953006	FB-1	Water	01/20/22 12:40	01/21/22 15:32
92583953007	FB-2	Water	01/20/22 14:28	01/21/22 15:32
92583953008	DGWC-20	Water	01/21/22 11:15	01/21/22 15:32
92583953009	DGWC-47	Water	01/21/22 09:23	01/21/22 15:32
92583953010	FB-3	Water	01/21/22 11:55	01/21/22 15:32
92583953011	DGWC-4	Water	01/24/22 13:10	01/25/22 09:04
92583953012	DGWC-5	Water	01/24/22 10:32	01/25/22 09:04
92583953013	DGWC-15	Water	01/24/22 14:59	01/25/22 09:04
92583953014	DGWC-17	Water	01/24/22 14:46	01/25/22 09:04
92583953015	DGWC-48	Water	01/24/22 10:10	01/25/22 09:04
92583953016	EB-4	Water	01/24/22 14:55	01/25/22 09:04
92583953017	FB-4	Water	01/24/22 15:55	01/25/22 09:04
92583953018	DUP-4	Water	01/24/22 00:00	01/25/22 09:04
92583953019	DGWC-8	Water	01/25/22 11:45	01/26/22 08:51
92583953020	DGWC-11	Water	01/25/22 15:16	01/26/22 08:51
92583953021	DGWC-12	Water	01/25/22 10:48	01/26/22 08:51
92583953022	DGWC-13	Water	01/25/22 11:05	01/26/22 08:51
92583953023	DGWC-14	Water	01/25/22 09:47	01/26/22 08:51
92583953024	DGWC-19	Water	01/25/22 14:40	01/26/22 08:51
92583953025	FB-5	Water	01/25/22 10:15	01/26/22 08:51
92583953026	DGWC-9	Water	01/26/22 16:30	01/27/22 08:50
92583953027	DGWC-10	Water	01/26/22 14:30	01/27/22 08:50
92583953028	FB-6	Water	01/26/22 17:10	01/27/22 08:50
92583953029	DUP-5	Water	01/26/22 00:00	01/27/22 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953001	DGWC-2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953002	DGWC-21	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953003	DGWC-22	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583953004	DGWC-23	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
92583953005	DGWC-42	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
92583953006	FB-1	EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583953007	FB-2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953008	DGWC-20	EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953009	DGWC-47	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583953010	FB-3	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583953011	DGWC-4	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953012	DGWC-5	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583953013	DGWC-15	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953014	DGWC-17	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953015	DGWC-48	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583953016	EB-4	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583953017	FB-4	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953018	DUP-4	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583953019	DGWC-8	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953020	DGWC-11	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953021	DGWC-12	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953022	DGWC-13	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583953023	DGWC-14	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583953024	DGWC-19	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583953025	FB-5	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 6010D	KH	4	PASI-GA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953026	DGWC-9	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953027	DGWC-10	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953028	FB-6	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953029	DUP-5	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-2	Lab ID: 92583953001	Collected: 01/20/22 11:03	Received: 01/21/22 15:32	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:40		
pH	5.93	Std. Units			1		01/24/22 09:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.0	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 17:03	7440-09-7	
Sodium	10.4	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 17:03	7440-23-5	M1
Calcium	44.6	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 17:03	7440-70-2	M1
Magnesium	9.2	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 17:03	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:02	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:02	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:02	7440-41-7	
Boron	0.50	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:02	7440-47-3	
Cobalt	0.0040J	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:02	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:02	7439-93-2	
Molybdenum	0.0022J	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:02	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	238	mg/L	10.0	10.0	1		01/26/22 17:41		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	48.7	mg/L	5.0	1.8	1		01/25/22 21:38		
Alkalinity,Bicarbonate (CaCO ₃)	48.7	mg/L	5.0	1.8	1		01/25/22 21:38		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 21:38		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		01/25/22 13:46	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-2		Lab ID: 92583953001		Collected: 01/20/22 11:03	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 13:46	16984-48-8	M1,R1
Sulfate	101	mg/L	2.0	1.0	2		01/26/22 07:29	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-21 Lab ID: 92583953002 Collected: 01/20/22 16:13 Received: 01/21/22 15:32 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:40		
pH	5.73	Std. Units			1		01/24/22 09:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.8	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:12	7440-09-7	
Sodium	23.0	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:12	7440-23-5	
Calcium	83.7	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:12	7440-70-2	
Magnesium	17.1	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:12	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:08	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:08	7440-39-3	
Beryllium	0.00019J	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:08	7440-41-7	
Boron	6.9	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:08	7440-47-3	
Cobalt	0.0076	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:08	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	451	mg/L	10.0	10.0	1		01/26/22 17:41		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	29.9	mg/L	5.0	1.8	1		01/25/22 21:42		
Alkalinity,Bicarbonate (CaCO ₃)	29.9	mg/L	5.0	1.8	1		01/25/22 21:42		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 21:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.6	mg/L	1.0	0.60	1		01/25/22 15:13	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-21 **Lab ID: 92583953002** Collected: 01/20/22 16:13 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 15:13	16984-48-8	
Sulfate	223	mg/L	5.0	2.5	5		01/26/22 08:26	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-22		Lab ID: 92583953003		Collected: 01/20/22 12:55		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:40		
pH	5.72	Std. Units			1		01/24/22 09:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.8	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:16	7440-09-7	
Sodium	30.6	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:16	7440-23-5	
Calcium	67.3	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:16	7440-70-2	
Magnesium	23.5	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:16	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:32	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:32	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:32	7440-41-7	
Boron	4.2	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:32	7440-42-8	
Cadmium	0.00052	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:32	7440-47-3	
Cobalt	0.0075	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:32	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	434	mg/L	10.0	10.0	1		01/26/22 17:41		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	24.4	mg/L	5.0	1.8	1		01/25/22 21:46		
Alkalinity,Bicarbonate (CaCO ₃)	24.4	mg/L	5.0	1.8	1		01/25/22 21:46		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 21:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.1	mg/L	1.0	0.60	1		01/25/22 15:27	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-22 **Lab ID: 92583953003** Collected: 01/20/22 12:55 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 15:27	16984-48-8	
Sulfate	221	mg/L	5.0	2.5	5		01/26/22 09:08	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-23		Lab ID: 92583953004		Collected: 01/20/22 10:55		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:40		
pH	5.95	Std. Units			1		01/24/22 09:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	7.0	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:21	7440-09-7	
Sodium	22.6	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:21	7440-23-5	
Calcium	82.7	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:21	7440-70-2	
Magnesium	19.9	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:21	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:38	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:38	7440-39-3	
Beryllium	0.00046J	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:38	7440-41-7	
Boron	4.5	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:38	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:38	7440-47-3	
Cobalt	0.00058J	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:38	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:38	7439-93-2	
Molybdenum	0.0073J	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	453	mg/L	10.0	10.0	1		01/26/22 17:41		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	72.8	mg/L	5.0	1.8	1		01/25/22 21:50		
Alkalinity,Bicarbonate (CaCO3)	72.8	mg/L	5.0	1.8	1		01/25/22 21:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:50		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	12.0	mg/L	1.0	0.60	1		01/25/22 15:41	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-23		Lab ID: 92583953004		Collected: 01/20/22 10:55	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 15:41	16984-48-8	
Sulfate	211	mg/L	5.0	2.5	5		01/26/22 09:21	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-42		Lab ID: 92583953005		Collected: 01/20/22 14:28		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:40		
pH	5.27	Std. Units			1		01/24/22 09:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.2	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:26	7440-09-7	
Sodium	62.3	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:26	7440-23-5	
Calcium	38.1	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:26	7440-70-2	
Magnesium	29.7	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:26	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:44	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:44	7440-39-3	
Beryllium	0.0020	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:44	7440-41-7	
Boron	0.83	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:44	7440-42-8	
Cadmium	0.00038J	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:44	7440-47-3	
Cobalt	0.0056	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:44	7439-92-1	
Lithium	0.0069J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	504	mg/L	20.0	20.0	1		01/26/22 17:42		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	9.1	mg/L	5.0	1.8	1		01/25/22 21:57		
Alkalinity,Bicarbonate (CaCO ₃)	9.1	mg/L	5.0	1.8	1		01/25/22 21:57		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 21:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.2	mg/L	1.0	0.60	1		01/25/22 16:23	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-42									
Lab ID: 92583953005									
Collected: 01/20/22 14:28									
Received: 01/21/22 15:32									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 16:23	16984-48-8	
Sulfate	281	mg/L	6.0	3.0	6		01/26/22 09:35	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: FB-1 **Lab ID: 92583953006** Collected: 01/20/22 12:40 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:31	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:31	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:31	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:31	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:34	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:34	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:34	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	13.0	mg/L	10.0	10.0	1		01/26/22 17:42		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	1.8	1		01/26/22 18:57		
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 18:57		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 18:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 16:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 16:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 16:37	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: FB-2 **Lab ID: 92583953007** Collected: 01/20/22 14:28 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:35	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:35	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:35	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:35	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:40	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:40	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:40	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/26/22 17:43		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:00		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 16:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 16:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 16:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-20		Lab ID: 92583953008		Collected: 01/21/22 11:15		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:41		
pH	4.47	Std. Units			1		01/24/22 09:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	12.8	mg/L	1.0	0.76	5	01/25/22 09:12	01/26/22 14:21	7440-09-7	
Sodium	20.6	mg/L	5.0	2.9	5	01/25/22 09:12	01/26/22 14:21	7440-23-5	
Calcium	104	mg/L	5.0	0.61	5	01/25/22 09:12	01/26/22 14:21	7440-70-2	
Magnesium	27.3	mg/L	0.25	0.059	5	01/25/22 09:12	01/26/22 14:21	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 21:10	7440-36-0	
Arsenic	0.015	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:10	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 21:10	7440-39-3	
Beryllium	0.0070	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 21:10	7440-41-7	
Boron	3.6	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 21:10	7440-42-8	
Cadmium	0.0028	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 21:10	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:10	7440-47-3	
Cobalt	0.95	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 21:10	7440-48-4	
Lead	ND	mg/L	0.010	0.0089	10	01/25/22 09:47	01/26/22 19:46	7439-92-1	D3
Lithium	0.012J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 21:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 21:10	7439-98-7	
Selenium	0.041	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 21:10	7782-49-2	
Thallium	ND	mg/L	0.010	0.0018	10	01/25/22 09:47	01/28/22 09:39	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	702	mg/L	20.0	20.0	1		01/28/22 10:30		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:02		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:02		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	27.0	mg/L	1.0	0.60	1		01/25/22 17:04	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-20 **Lab ID: 92583953008** Collected: 01/21/22 11:15 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	1.3	mg/L	0.10	0.050	1		01/25/22 17:04	16984-48-8	
Sulfate	406	mg/L	10.0	5.0	10		01/26/22 09:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-47	Lab ID: 92583953009	Collected: 01/21/22 09:23	Received: 01/21/22 15:32	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:41		
pH	3.72	Std. Units			1		01/24/22 09:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.4	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:54	7440-09-7	
Sodium	9.3	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:54	7440-23-5	
Calcium	31.0	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:54	7440-70-2	
Magnesium	9.0	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:54	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:52	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:52	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:52	7440-39-3	
Beryllium	0.010	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:52	7440-41-7	
Boron	0.17	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:52	7440-42-8	
Cadmium	0.0019	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:52	7440-47-3	
Cobalt	0.24	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:52	7439-92-1	
Lithium	0.055	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:52	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:52	7782-49-2	
Thallium	0.00028J	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:23	7439-97-6	M1,R1
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	289	mg/L	10.0	10.0	1		01/28/22 10:30		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:04		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.1	mg/L	1.0	0.60	1		01/25/22 17:18	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-47 Lab ID: 92583953009 Collected: 01/21/22 09:23 Received: 01/21/22 15:32 Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.64	mg/L	0.10	0.050	1		01/25/22 17:18	16984-48-8	
Sulfate	135	mg/L	3.0	1.5	3		01/26/22 10:03	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: FB-3		Lab ID: 92583953010		Collected: 01/21/22 11:55	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:59	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:59	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:59	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:59	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:58	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:58	7440-38-2	
Barium	0.00072J	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:51	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:39	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	14.0	mg/L	10.0	10.0	1		01/28/22 10:30		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:06		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:06		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 17:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 17:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 17:32	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-4	Lab ID: 92583953011	Collected: 01/24/22 13:10		Received: 01/25/22 09:04		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:27		
pH	5.79	Std. Units			1		01/25/22 11:27		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	9.8	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:34	7440-09-7	
Sodium	55.1	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:34	7440-23-5	
Calcium	299	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:34	7440-70-2	
Magnesium	37.7	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:34	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 17:09	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:09	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 17:09	7440-39-3	
Beryllium	0.00033J	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 17:09	7440-41-7	
Boron	5.1	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 17:09	7440-42-8	M1
Cadmium	0.00098	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:09	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 17:09	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 17:09	7439-93-2	
Molybdenum	0.0045J	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 17:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00022	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1520	mg/L	50.0	50.0	1		01/28/22 10:30		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	131	mg/L	5.0	1.8	1		01/27/22 16:29		
Alkalinity,Bicarbonate (CaCO ₃)	131	mg/L	5.0	1.8	1		01/27/22 16:29		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 16:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	12.5	mg/L	1.0	0.60	1		01/26/22 23:54	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-4									
Lab ID: 92583953011									
Collected: 01/24/22 13:10									
Received: 01/25/22 09:04									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/26/22 23:54	16984-48-8	
Sulfate	816	mg/L	19.0	9.5	19		01/27/22 08:42	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-5 Lab ID: 92583953012 Collected: 01/24/22 10:32 Received: 01/25/22 09:04 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:37		
pH	4.79	Std. Units			1		01/25/22 11:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.9	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:39	7440-09-7	
Sodium	18.3	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:39	7440-23-5	
Calcium	112	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:39	7440-70-2	
Magnesium	23.1	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:39	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:26	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:26	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:26	7440-39-3	
Beryllium	0.0084	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:26	7440-41-7	
Boron	4.4	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:26	7440-42-8	
Cadmium	0.00094	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:26	7440-47-3	
Cobalt	0.025	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:26	7439-92-1	
Lithium	0.0068J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:26	7439-98-7	
Selenium	0.0048J	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00028	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	810	mg/L	10.0	10.0	1		01/31/22 19:10		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	6.2	mg/L	5.0	1.8	1		01/27/22 18:18		
Alkalinity,Bicarbonate (CaCO ₃)	6.2	mg/L	5.0	1.8	1		01/27/22 18:18		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 18:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		01/27/22 00:08	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-5 **Lab ID: 92583953012** Collected: 01/24/22 10:32 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.19	mg/L	0.10	0.050	1		01/27/22 00:08	16984-48-8	
Sulfate	434	mg/L	10.0	5.0	10		01/27/22 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-15		Lab ID: 92583953013		Collected: 01/24/22 14:59		Received: 01/25/22 09:04		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:37		
pH	6.06	Std. Units			1		01/25/22 11:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.3	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:44	7440-09-7	
Sodium	20.2	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:44	7440-23-5	
Calcium	33.2	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:44	7440-70-2	
Magnesium	14.3	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:44	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:32	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:32	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:32	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:32	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	294	mg/L	10.0	10.0	1		01/31/22 19:10		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	17.4	mg/L	5.0	1.8	1		01/27/22 17:53		
Alkalinity,Bicarbonate (CaCO3)	17.4	mg/L	5.0	1.8	1		01/27/22 17:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 17:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	21.5	mg/L	1.0	0.60	1		01/27/22 00:22	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-15 **Lab ID: 92583953013** Collected: 01/24/22 14:59 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 00:22	16984-48-8	
Sulfate	127	mg/L	3.0	1.5	3		01/27/22 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-17 Lab ID: 92583953014 Collected: 01/24/22 14:46 Received: 01/25/22 09:04 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:37		
pH	5.15	Std. Units			1		01/25/22 11:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.6	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:49	7440-09-7	
Sodium	16.9	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:49	7440-23-5	
Calcium	15.6	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:49	7440-70-2	
Magnesium	49.2	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:49	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:38	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:38	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:38	7440-39-3	
Beryllium	0.00059	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:38	7440-41-7	
Boron	0.90	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:38	7440-42-8	
Cadmium	0.00027J	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:38	7440-43-9	
Chromium	0.0029J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:38	7440-47-3	
Cobalt	0.019	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:38	7439-98-7	
Selenium	0.0064	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	426	mg/L	10.0	10.0	1		01/31/22 19:10		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	5.2	mg/L	5.0	1.8	1		01/27/22 17:56		
Alkalinity,Bicarbonate (CaCO ₃)	5.2	mg/L	5.0	1.8	1		01/27/22 17:56		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 17:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	19.2	mg/L	1.0	0.60	1		01/27/22 00:35	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-17 **Lab ID: 92583953014** Collected: 01/24/22 14:46 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 00:35	16984-48-8	
Sulfate	225	mg/L	5.0	2.5	5		01/27/22 09:24	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-48		Lab ID: 92583953015		Collected: 01/24/22 10:10		Received: 01/25/22 09:04		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:38		
pH	4.03	Std. Units			1		01/25/22 11:38		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	13.2	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:53	7440-09-7	
Sodium	19.7	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:53	7440-23-5	
Calcium	61.2	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:53	7440-70-2	
Magnesium	14.2	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:53	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:44	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:44	7440-39-3	
Beryllium	0.0069	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:44	7440-41-7	
Boron	0.61	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:44	7440-42-8	
Cadmium	0.0029	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:44	7440-47-3	
Cobalt	0.34	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:44	7440-48-4	
Lead	0.0011	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:44	7439-92-1	
Lithium	0.11	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	500	mg/L	10.0	10.0	1		01/31/22 19:10		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	1.8	1		01/27/22 18:00		
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 18:00		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 18:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	11.3	mg/L	1.0	0.60	1		01/27/22 01:17	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-48		Lab ID: 92583953015		Collected: 01/24/22 10:10	Received: 01/25/22 09:04	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.59	mg/L	0.10	0.050	1		01/27/22 01:17	16984-48-8	M1
Sulfate	265	mg/L	6.0	3.0	6		01/27/22 09:38	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: EB-4 **Lab ID: 92583953016** Collected: 01/24/22 14:55 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 19:12	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 19:12	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 19:12	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 19:12	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/31/22 19:10		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/27/22 16:14		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/27/22 02:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 02:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/27/22 02:27	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: FB-4 **Lab ID: 92583953017** Collected: 01/24/22 15:55 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:07	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:07	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:07	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/31/22 13:48	01/31/22 18:07	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:56	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/31/22 19:10		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/27/22 16:17		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/27/22 02:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 02:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/27/22 02:41	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DUP-4 **Lab ID: 92583953018** Collected: 01/24/22 00:00 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.6	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:12	7440-09-7	
Sodium	22.1	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:12	7440-23-5	
Calcium	135	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:12	7440-70-2	
Magnesium	27.0	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:13	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:02	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:02	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:02	7440-39-3	
Beryllium	0.0087	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:02	7440-41-7	
Boron	4.5	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:02	7440-42-8	
Cadmium	0.00096	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:02	7440-47-3	
Cobalt	0.025	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:02	7439-92-1	
Lithium	0.0073J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:02	7439-98-7	
Selenium	0.0047J	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00027	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	772	mg/L	20.0	20.0	1		01/31/22 19:11		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	6.2	mg/L	5.0	1.8	1		01/27/22 18:22		
Alkalinity, Bicarbonate (CaCO ₃)	6.2	mg/L	5.0	1.8	1		01/27/22 18:22		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 18:22		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10	mg/L	1.0	0.60	1		01/27/22 02:55	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		01/27/22 02:55	16984-48-8	
Sulfate	441	mg/L	10.0	5.0	10		01/27/22 10:47	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-8		Lab ID: 92583953019		Collected: 01/25/22 11:45		Received: 01/26/22 08:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 09:58		
pH	5.16	Std. Units			1		01/26/22 09:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.4	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:40	7440-09-7	
Sodium	14.4	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:40	7440-23-5	
Calcium	36.8	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:40	7440-70-2	
Magnesium	17.9	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:27	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:08	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:08	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:08	7440-41-7	
Boron	0.98	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:08	7440-42-8	
Cadmium	0.0016	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:08	7440-47-3	
Cobalt	0.019	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:08	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:08	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	281	mg/L	10.0	10.0	1		01/31/22 19:11		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	8.3	mg/L	5.0	1.8	1		02/01/22 18:36		
Alkalinity,Bicarbonate (CaCO ₃)	8.3	mg/L	5.0	1.8	1		02/01/22 18:36		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/01/22 18:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.3	mg/L	1.0	0.60	1		01/28/22 03:34	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-8 **Lab ID: 92583953019** Collected: 01/25/22 11:45 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 03:34	16984-48-8	
Sulfate	134	mg/L	3.0	1.5	3		01/28/22 11:14	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-11		Lab ID: 92583953020		Collected: 01/25/22 15:16		Received: 01/26/22 08:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 09:58		
pH	5.54	Std. Units			1		01/26/22 09:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Magnesium	33.6	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:32	7439-95-4	
Potassium	4.7	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:45	7440-09-7	
Sodium	22.8	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:45	7440-23-5	
Calcium	70.2	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:45	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:14	7440-38-2	
Barium	0.047	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:14	7440-39-3	
Beryllium	0.00019J	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:14	7440-41-7	
Boron	1.7	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:14	7440-42-8	
Cadmium	0.00016J	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:14	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:14	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	465	mg/L	10.0	10.0	1		01/31/22 19:11		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	11.9	mg/L	5.0	1.8	1		02/01/22 18:40		
Alkalinity,Bicarbonate (CaCO3)	11.9	mg/L	5.0	1.8	1		02/01/22 18:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/01/22 18:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.1	mg/L	1.0	0.60	1		01/28/22 04:15	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-11 **Lab ID: 92583953020** Collected: 01/25/22 15:16 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 04:15	16984-48-8	
Sulfate	250	mg/L	6.0	3.0	6		01/28/22 11:28	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-12	Lab ID: 92583953021	Collected: 01/25/22 10:48	Received: 01/26/22 08:51	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 09:58		
pH	5.96	Std. Units			1		01/26/22 09:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Magnesium	16.8	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:36	7439-95-4	
Potassium	9.0	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:59	7440-09-7	
Sodium	11.6	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:59	7440-23-5	
Calcium	28.5	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:20	7440-38-2	
Barium	0.054	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:20	7440-41-7	
Boron	0.70	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:20	7440-47-3	
Cobalt	0.018	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	258	mg/L	10.0	10.0	1		01/31/22 19:11		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	74.7	mg/L	5.0	1.8	1		02/01/22 17:44		
Alkalinity,Bicarbonate (CaCO ₃)	74.7	mg/L	5.0	1.8	1		02/01/22 17:44		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/01/22 17:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.1	mg/L	1.0	0.60	1		01/28/22 05:25	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-12		Lab ID: 92583953021		Collected: 01/25/22 10:48	Received: 01/26/22 08:51	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.093J	mg/L	0.10	0.050	1		01/28/22 05:25	16984-48-8	
Sulfate	111	mg/L	3.0	1.5	3		01/28/22 12:10	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-13		Lab ID: 92583953022		Collected: 01/25/22 11:05		Received: 01/26/22 08:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 09:59		
pH	4.68	Std. Units			1		01/26/22 09:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Magnesium	8.9	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:41	7439-95-4	
Potassium	5.7	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:04	7440-09-7	
Sodium	24.7	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:04	7440-23-5	
Calcium	43.2	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:04	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:37	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:37	7440-39-3	
Beryllium	0.000091J	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:37	7440-41-7	
Boron	0.69	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:37	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:37	7439-93-2	
Molybdenum	0.0093J	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:37	7439-98-7	
Selenium	0.0060	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	256	mg/L	10.0	10.0	1		02/01/22 13:52		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	21.9	mg/L	5.0	1.8	1		02/02/22 15:48		
Alkalinity,Bicarbonate (CaCO3)	21.9	mg/L	5.0	1.8	1		02/02/22 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:48		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.3	mg/L	1.0	0.60	1		01/28/22 05:39	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-13 **Lab ID: 92583953022** Collected: 01/25/22 11:05 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.063J	mg/L	0.10	0.050	1		01/28/22 05:39	16984-48-8	
Sulfate	116	mg/L	3.0	1.5	3		01/28/22 12:25	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-14		Lab ID: 92583953023		Collected: 01/25/22 09:47		Received: 01/26/22 08:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 09:59		
pH	5.69	Std. Units			1		01/26/22 09:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	5.3	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:46	7439-95-4	
Potassium	3.4	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:09	7440-09-7	
Sodium	7.6	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:09	7440-23-5	
Calcium	12.4	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:43	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:43	7440-41-7	
Boron	0.097	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:43	7439-92-1	
Lithium	0.0043J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:43	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	120	mg/L	10.0	10.0	1		02/01/22 13:52		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	15.2	mg/L	5.0	1.8	1		02/02/22 18:08		
Alkalinity,Bicarbonate (CaCO3)	15.2	mg/L	5.0	1.8	1		02/02/22 18:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 18:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.7	mg/L	1.0	0.60	1		01/28/22 05:53	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-14 **Lab ID: 92583953023** Collected: 01/25/22 09:47 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 05:53	16984-48-8	
Sulfate	44.4	mg/L	1.0	0.50	1		01/28/22 05:53	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-19	Lab ID: 92583953024	Collected: 01/25/22 14:40	Received: 01/26/22 08:51	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 10:00		
pH	4.79	Std. Units			1		01/26/22 10:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.2	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:13	7440-09-7	
Sodium	35.9	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:13	7440-23-5	
Calcium	101	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:13	7440-70-2	
Magnesium	13.0	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:51	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:49	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:49	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:49	7440-39-3	
Beryllium	0.0019	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:49	7440-41-7	
Boron	2.5	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:49	7440-42-8	
Cadmium	0.00041J	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:49	7440-43-9	
Chromium	0.0029J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:49	7440-47-3	
Cobalt	0.054	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:49	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:49	7439-98-7	
Selenium	0.0029J	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:49	7782-49-2	
Thallium	0.00057J	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	694	mg/L	20.0	20.0	1		02/01/22 13:52		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	3.5J	mg/L	5.0	1.8	1		02/02/22 18:12		
Alkalinity,Bicarbonate (CaCO3)	3.5J	mg/L	5.0	1.8	1		02/02/22 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 18:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	23.7	mg/L	1.0	0.60	1		01/28/22 06:07	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-19 Lab ID: 92583953024 Collected: 01/25/22 14:40 Received: 01/26/22 08:51 Matrix: Water									
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.16	mg/L	0.10	0.050	1		01/28/22 06:07	16984-48-8	
Sulfate	288	mg/L	7.0	3.5	7		01/28/22 12:39	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: FB-5 **Lab ID: 92583953025** Collected: 01/25/22 10:15 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:18	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:18	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:18	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/31/22 13:48	01/31/22 19:18	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:55	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	11.0	mg/L	10.0	10.0	1		02/01/22 13:52		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 15:59		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/28/22 06:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 06:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/28/22 06:21	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-9 Lab ID: 92583953026 Collected: 01/26/22 16:30 Received: 01/27/22 08:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:28		
pH	3.68	Std. Units			1		01/27/22 10:28		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.4	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:23	7440-09-7	
Sodium	32.6	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:23	7440-23-5	
Calcium	48.4	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:23	7440-70-2	
Magnesium	5.9	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:55	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 21:49	7440-36-0	
Arsenic	0.012	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 21:49	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 21:49	7440-39-3	
Beryllium	0.0054	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 21:49	7440-41-7	
Boron	0.69	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:49	7440-42-8	
Cadmium	0.00059	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 21:49	7440-43-9	
Chromium	0.0029J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 21:49	7440-47-3	
Cobalt	0.22	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 21:49	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/03/22 13:00	02/04/22 13:50	7439-92-1	D3
Lithium	0.029J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 21:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 21:49	7439-98-7	
Selenium	0.025	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 21:49	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/03/22 13:00	02/04/22 13:50	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	409	mg/L	10.0	10.0	1		02/01/22 14:08		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 23:12		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.1	mg/L	1.0	0.60	1		01/29/22 15:45	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-9 **Lab ID: 92583953026** Collected: 01/26/22 16:30 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	1.2	mg/L	0.10	0.050	1		01/29/22 15:45	16984-48-8	
Sulfate	245	mg/L	6.0	3.0	6		01/30/22 03:08	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DGWC-10		Lab ID: 92583953027		Collected: 01/26/22 14:30		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:29		
pH	4.90	Std. Units			1		01/27/22 10:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Magnesium	7.4	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 14:10	7439-95-4	
Potassium	6.9	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:28	7440-09-7	
Sodium	11.1	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:28	7440-23-5	
Calcium	76.8	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0021J	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:12	7440-36-0	
Arsenic	0.0043J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:12	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:12	7440-39-3	
Beryllium	0.0091	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:12	7440-41-7	
Boron	0.40	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:12	7440-42-8	
Cadmium	0.00070	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:12	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:12	7440-47-3	
Cobalt	0.099	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:12	7439-92-1	
Lithium	0.0059J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:12	7439-98-7	
Selenium	0.015	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:12	7782-49-2	
Thallium	0.00033J	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:34	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	425	mg/L	10.0	10.0	1		02/01/22 14:08		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	5.3	mg/L	5.0	1.8	1		02/02/22 23:16		
Alkalinity,Bicarbonate (CaCO ₃)	5.3	mg/L	5.0	1.8	1		02/02/22 23:16		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 23:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.0	mg/L	1.0	0.60	1		01/29/22 15:59	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-10 **Lab ID: 92583953027** Collected: 01/26/22 14:30 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	1.8	mg/L	0.10	0.050	1		01/29/22 15:59	16984-48-8	
Sulfate	241	mg/L	6.0	3.0	6		01/30/22 03:22	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: FB-6 **Lab ID: 92583953028** Collected: 01/26/22 17:10 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:33	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:33	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:33	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/31/22 13:48	01/31/22 19:33	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/01/22 14:08		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	1.8	1		02/02/22 21:59		
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 21:59		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 21:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/29/22 16:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/29/22 16:13	16984-48-8	R1
Sulfate	ND	mg/L	1.0	0.50	1		01/29/22 16:13	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Sample: DUP-5 **Lab ID: 92583953029** Collected: 01/26/22 00:00 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Magnesium	7.5	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 14:14	7439-95-4	
Potassium	7.1	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:37	7440-09-7	
Sodium	11.5	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:37	7440-23-5	
Calcium	81.8	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:24	7440-36-0	
Arsenic	0.0041J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:24	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:24	7440-39-3	
Beryllium	0.0091	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:24	7440-41-7	
Boron	0.34	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:24	7440-42-8	
Cadmium	0.00071	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:24	7440-47-3	
Cobalt	0.098	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:24	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:24	7439-98-7	
Selenium	0.016	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:24	7782-49-2	
Thallium	0.00032J	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	419	mg/L	10.0	10.0	1		02/01/22 14:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	5.4	mg/L	5.0	1.8	1		02/02/22 23:20		
Alkalinity,Bicarbonate (CaCO3)	5.4	mg/L	5.0	1.8	1		02/02/22 23:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:20		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.3	mg/L	1.0	0.60	1		01/29/22 16:55	16887-00-6	
Fluoride	1.8	mg/L	0.10	0.050	1		01/29/22 16:55	16984-48-8	
Sulfate	235	mg/L	6.0	3.0	6		01/30/22 03:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	673590	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010		

METHOD BLANK:	3525723	Matrix:	Water
Associated Lab Samples:	92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 16:54	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 16:54	
Potassium	mg/L	ND	0.20	0.15	01/25/22 16:54	
Sodium	mg/L	ND	1.0	0.58	01/25/22 16:54	

LABORATORY CONTROL SAMPLE: 3525724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525725 3525726

Parameter	Units	92583953001		3525726		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	44.6	1	1	45.6	45.2	100	56	75-125	1	20 M1
Magnesium	mg/L	9.2	1	1	10.4	10.1	118	95	75-125	2	20
Potassium	mg/L	6.0	1	1	6.9	7.0	96	106	75-125	1	20
Sodium	mg/L	10.4	1	1	11.8	11.3	144	90	75-125	5	20 M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 674583 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016

METHOD BLANK: 3530749 Matrix: Water
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/28/22 16:50	
Magnesium	mg/L	ND	0.050	0.012	01/28/22 16:50	
Potassium	mg/L	ND	0.20	0.15	01/28/22 16:50	
Sodium	mg/L	ND	1.0	0.58	01/28/22 16:50	

LABORATORY CONTROL SAMPLE: 3530750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530751 3530752

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584522001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	16.2	1	1	17.1	16.7	86	47	75-125	2	20 M1
Magnesium	mg/L	3.5	1	1	4.4	4.4	89	84	75-125	1	20
Potassium	mg/L	3.0	1	1	3.9	3.7	86	66	75-125	5	20 M1
Sodium	mg/L	16.3	1	1	17.0	16.7	71	33	75-125	2	20 M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674955	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028, 92583953029		

METHOD BLANK:	3532830	Matrix:	Water
Associated Lab Samples:	92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028, 92583953029		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/31/22 17:28	
Magnesium	mg/L	ND	0.050	0.012	01/31/22 17:28	
Potassium	mg/L	ND	0.20	0.15	01/31/22 17:28	
Sodium	mg/L	ND	1.0	0.58	01/31/22 17:28	

LABORATORY CONTROL SAMPLE: 3532831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.2	116	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.2	120	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532832 3532833

Parameter	Units	92582988004 Result	MS Spike Conc.	MSD Spike Conc.	3532832		3532833		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	17900 ug/L	1	1	19.3	18.8	143	94	75-125	3	20	M1
Magnesium	mg/L	7710 ug/L	1	1	9.0	9.0	128	127	75-125	0	20	M1
Potassium	mg/L	3020 ug/L	1	1	4.2	4.0	119	103	75-125	4	20	
Sodium	mg/L	37000 ug/L	1	1	39.0	37.9	193	89	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 673615 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK: 3525835 Matrix: Water
Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/26/22 12:50	
Arsenic	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Barium	mg/L	ND	0.0050	0.00067	01/26/22 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	01/26/22 12:50	
Boron	mg/L	ND	0.040	0.0086	01/26/22 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	01/26/22 12:50	
Chromium	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	01/26/22 12:50	
Lead	mg/L	ND	0.0010	0.00089	01/26/22 12:50	
Lithium	mg/L	ND	0.030	0.00073	01/26/22 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	01/26/22 12:50	
Selenium	mg/L	ND	0.0050	0.0014	01/26/22 12:50	
Thallium	mg/L	ND	0.0010	0.00018	01/26/22 12:50	

LABORATORY CONTROL SAMPLE: 3525836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525837 3525838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953002 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameter	Units	3525837		3525838		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Arsenic	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Barium	mg/L	0.024	0.1	0.1	0.12	0.12	98	95	75-125	2	20		
Beryllium	mg/L	0.00019J	0.1	0.1	0.091	0.088	91	88	75-125	3	20		
Boron	mg/L	6.9	1	1	8.0	7.8	108	86	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	95	95	75-125	0	20		
Cobalt	mg/L	0.0076	0.1	0.1	0.10	0.10	95	95	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Lithium	mg/L	0.0058J	0.1	0.1	0.099	0.094	93	88	75-125	6	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	96	93	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 675780 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 3536808 Matrix: Water
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 16:32	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 16:32	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 16:32	
Boron	mg/L	ND	0.040	0.0086	02/03/22 16:32	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 16:32	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 16:32	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 16:32	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 16:32	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 16:32	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 16:32	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 16:32	

LABORATORY CONTROL SAMPLE: 3536809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.083	83	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.087	87	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.087	87	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameter	Units	3536810		3536811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	108	109	75-125	1	20		
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	104	103	75-125	1	20		
Beryllium	mg/L	0.00033J	0.1	0.1	0.092	0.091	92	90	75-125	2	20		
Boron	mg/L	5.1	1	1	5.9	5.7	77	53	75-125	4	20	M1	
Cadmium	mg/L	0.00098	0.1	0.1	0.098	0.10	97	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Cobalt	mg/L	0.0019J	0.1	0.1	0.098	0.098	96	96	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	2	20		
Lithium	mg/L	0.0038J	0.1	0.1	0.10	0.098	96	95	75-125	1	20		
Molybdenum	mg/L	0.0045J	0.1	0.1	0.10	0.10	96	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.12	0.12	115	116	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 675834 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

METHOD BLANK: 3537236 Matrix: Water
Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 20:25	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 20:25	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 20:25	
Boron	mg/L	ND	0.040	0.0086	02/03/22 20:25	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 20:25	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 20:25	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 20:25	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 20:25	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 20:25	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 20:25	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 20:25	

LABORATORY CONTROL SAMPLE: 3537237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	0.11	110	111	75-125	1	20	
Arsenic	mg/L	0.012	0.1	0.1	0.1	0.11	0.11	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameter	Units	92583953026		3537238		3537239		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	102	104	75-125	2	20			
Beryllium	mg/L	0.0054	0.1	0.1	0.10	0.11	98	100	75-125	2	20			
Boron	mg/L	0.69	1	1	1.7	1.7	96	102	75-125	4	20			
Cadmium	mg/L	0.00059	0.1	0.1	0.098	0.099	97	99	75-125	1	20			
Chromium	mg/L	0.0029J	0.1	0.1	0.10	0.10	100	101	75-125	1	20			
Cobalt	mg/L	0.22	0.1	0.1	0.31	0.32	88	101	75-125	4	20			
Lead	mg/L	ND	0.1	0.1	0.086	0.087	86	86	75-125	0	20			
Lithium	mg/L	0.029J	0.1	0.1	0.13	0.13	102	104	75-125	2	20			
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	109	75-125	1	20			
Selenium	mg/L	0.025	0.1	0.1	0.13	0.13	103	105	75-125	1	20			
Thallium	mg/L	ND	0.1	0.1	0.083	0.085	83	84	75-125	2	20			

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch:	674969	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008

METHOD BLANK: 3532919 Matrix: Water
Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/01/22 11:32	

LABORATORY CONTROL SAMPLE: 3532920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532921 3532922

Parameter	Units	92583600001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0022	89	90	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch:	675271	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953009, 92583953010, 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028

METHOD BLANK: 3534192 Matrix: Water

Associated Lab Samples: 92583953009, 92583953010, 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/02/22 13:18	

LABORATORY CONTROL SAMPLE: 3534193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3534194 3534195

Parameter	Units	92583953009		3534195		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	ND	0.0025	0.0025	0.0032	0.0025	126	98	75-125	25	20	M1,R1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 675274	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953029

METHOD BLANK: 3534212 Matrix: Water

Associated Lab Samples: 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/02/22 12:18	

LABORATORY CONTROL SAMPLE: 3534213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3534214 3534215

Parameter	Units	3534214		3534215		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	0.50 ug/L	0.0025	0.0025	0.0027	0.0025	89	80	75-125	9	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674001	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007

METHOD BLANK: 3527668 Matrix: Water
Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/26/22 17:40	

LABORATORY CONTROL SAMPLE: 3527669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3527670

Parameter	Units	92583746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	215	0	25	

SAMPLE DUPLICATE: 3527671

Parameter	Units	92583955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	177	164	8	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674255	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953008, 92583953009, 92583953010, 92583953011

METHOD BLANK: 3528806 Matrix: Water
Associated Lab Samples: 92583953008, 92583953009, 92583953010, 92583953011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 674961 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021

METHOD BLANK: 3532863 Matrix: Water
 Associated Lab Samples: 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/31/22 19:09	

LABORATORY CONTROL SAMPLE: 3532864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3532865

Parameter	Units	92583955011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	502	526	5	25	

SAMPLE DUPLICATE: 3532866

Parameter	Units	92583953014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	422	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	675199	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 3533876 Matrix: Water

Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 13:52	

LABORATORY CONTROL SAMPLE: 3533877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3533878

Parameter	Units	92583953022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	269	5	25	

SAMPLE DUPLICATE: 3533879

Parameter	Units	92584522003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	137	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	675202	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

METHOD BLANK: 3533883 Matrix: Water
Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 14:06	

LABORATORY CONTROL SAMPLE: 3533884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3533885

Parameter	Units	92584543008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	52.0	9	25	

SAMPLE DUPLICATE: 3533886

Parameter	Units	92585000001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	66.0	16	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	795372	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005

METHOD BLANK: 4229775 Matrix: Water

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/25/22 20:46	

LABORATORY CONTROL SAMPLE & LCSD: 4229776 4229777

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	40.3	42.1	101	105	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229778 4229779

Parameter	Units	92583955004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	12.0	40	40	44.3	43.6	81	79	80-120	2	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	795582	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK: 4230588 Matrix: Water
Associated Lab Samples: 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/26/22 17:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 17:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 17:18	

LABORATORY CONTROL SAMPLE & LCSD: 4230589 4230590

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.6	42.5	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230591 4230592

Parameter	Units	10595194001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	241	40	40	280	280	96	96	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230593 4230594

Parameter	Units	10595253004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	62.9	40	40	103	103	100	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 795662 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018

METHOD BLANK: 4230834 Matrix: Water
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/27/22 15:32	

LABORATORY CONTROL SAMPLE & LCSD: 4230835 4230836

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.8	37.4	105	94	90-110	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230837 4230838

Parameter	Units	92583955011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	26.8	40	40	66.4	66.4	99	99	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230839 4230840

Parameter	Units	10595396002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	111	40	40	140	149	73	96	80-120	6	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 796365 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583953019, 92583953020, 92583953021

METHOD BLANK: 4233805 Matrix: Water
Associated Lab Samples: 92583953019, 92583953020, 92583953021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/01/22 15:36	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/01/22 15:36	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/01/22 15:36	

LABORATORY CONTROL SAMPLE & LCSD: 4233806 4233807

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.4	42.3	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4233808 4233809

Parameter	Units	10595643008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	112	40	40	152	153	100	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4233810 4233811

Parameter	Units	10595643011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	216	40	40	255	256	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 796618 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 4234697 Matrix: Water
Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 14:45	

LABORATORY CONTROL SAMPLE & LCSD: 4234698 4234699

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.0	42.0	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234700 4234701

Parameter	Units	92583600008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	192	40	40	232	232	99	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234702 4234703

Parameter	Units	10595445007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	490	40	40	529	530	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 796922

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583953026

METHOD BLANK: 4235794

Matrix: Water

Associated Lab Samples: 92583953026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:14	

LABORATORY CONTROL SAMPLE & LCSD: 4235795

4235796

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.2	42.2	106	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235797

4235798

Parameter	Units	10596266001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	20.9	40	40	60.9	60.9	100	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 796923 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583953027, 92583953028, 92583953029

METHOD BLANK: 4235799 Matrix: Water
Associated Lab Samples: 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:34	

LABORATORY CONTROL SAMPLE & LCSD: 4235800 4235801

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.2	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235802 4235803

Parameter	Units	92583953027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	5.3	40	40	43.7	43.4	96	95	80-120	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch:	673554	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK: 3525639 Matrix: Water
Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 13:04	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 13:04	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 13:04	

LABORATORY CONTROL SAMPLE: 3525640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525641 3525642

Parameter	Units	92583953001		3525642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.0	50	50	53.1	53.7	102	103	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	0	10
Sulfate	mg/L	101	50	50	145	146	89	91	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525643 3525644

Parameter	Units	92583953001		3525644		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.0	50	50	50.2	52.2	96	101	90-110	4	10
Fluoride	mg/L	ND	2.5	2.5	2.2	2.6	88	102	90-110	15	10 M1, R1
Sulfate	mg/L	101	50	50	49.6	48.9	-102	-104	90-110	1	10 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 673904 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014

METHOD BLANK: 3527216 Matrix: Water
Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/26/22 17:51	
Fluoride	mg/L	ND	0.10	0.050	01/26/22 17:51	
Sulfate	mg/L	ND	1.0	0.50	01/26/22 17:51	

LABORATORY CONTROL SAMPLE: 3527217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527218 3527219

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584141001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	18.4	50	50	50	69.0	69.2	101	102	90-110	0	10	
Fluoride	mg/L	0.41	2.5	2.5	2.5	2.9	2.9	100	100	90-110	1	10	
Sulfate	mg/L	14.2	50	50	50	64.1	64.1	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527220 3527221

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584178003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.1	50	50	50	53.4	54.4	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	2.4	93	96	90-110	3	10	
Sulfate	mg/L	11.6	50	50	50	62.4	63.0	102	103	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 673906 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583953015, 92583953016, 92583953017, 92583953018

METHOD BLANK: 3527222 Matrix: Water
Associated Lab Samples: 92583953015, 92583953016, 92583953017, 92583953018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/27/22 00:49	
Fluoride	mg/L	ND	0.10	0.050	01/27/22 00:49	
Sulfate	mg/L	ND	1.0	0.50	01/27/22 00:49	

LABORATORY CONTROL SAMPLE: 3527223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.9	104	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527224 3527225

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	11.3	50	50	50	63.0	63.1	104	104	90-110	0	10	
Fluoride	mg/L	0.59	2.5	2.5	2.5	4.0	3.9	135	132	90-110	2	10	M1
Sulfate	mg/L	265	50	50	50	305	308	81	86	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527226 3527227

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584200005 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	18.6	50	50	50	69.9	70.6	103	104	90-110	1	10	
Fluoride	mg/L	0.087J	2.5	2.5	2.5	2.4	2.4	92	94	90-110	2	10	
Sulfate	mg/L	45.2	50	50	50	94.9	96.6	99	103	90-110	2	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 674218 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583953019

METHOD BLANK: 3528694 Matrix: Water
Associated Lab Samples: 92583953019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/27/22 20:50	
Fluoride	mg/L	ND	0.10	0.050	01/27/22 20:50	
Sulfate	mg/L	ND	1.0	0.50	01/27/22 20:50	

LABORATORY CONTROL SAMPLE: 3528695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528696 3528697

Parameter	Units	92584437011		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	10.0	50	50	50	61.4	61.5	103	103	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	2.7	106	108	90-110	2	10	
Sulfate	mg/L	5.0	50	50	50	55.8	55.3	102	101	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528698 3528699

Parameter	Units	92584543005		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	7.8	50	50	50	59.0	60.6	102	106	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	2.5	95	99	90-110	4	10	
Sulfate	mg/L	4.7	50	50	50	54.8	57.0	100	105	90-110	4	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 674220 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 3528706 Matrix: Water
Associated Lab Samples: 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/28/22 03:48	
Fluoride	mg/L	ND	0.10	0.050	01/28/22 03:48	
Sulfate	mg/L	ND	1.0	0.50	01/28/22 03:48	

LABORATORY CONTROL SAMPLE: 3528707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528708 3528709

Parameter	Units	92583953020		3528708		3528709		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	14.1	14.1	50	50	66.6	66.4	105	105	90-110	0	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.5	2.5	99	100	90-110	1	10	
Sulfate	mg/L	250	250	50	50	297	288	94	77	90-110	3	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528710 3528711

Parameter	Units	92584465001		3528710		3528711		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	8.3	8.3	50	50	60.5	61.3	104	106	90-110	1	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10	
Sulfate	mg/L	4.5	4.5	50	50	56.1	56.5	103	104	90-110	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

QC Batch: 674479 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

METHOD BLANK: 3530364 Matrix: Water
Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/29/22 12:30	
Fluoride	mg/L	ND	0.10	0.050	01/29/22 12:30	
Sulfate	mg/L	ND	1.0	0.50	01/29/22 12:30	

LABORATORY CONTROL SAMPLE: 3530365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530366 3530367

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584825001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	1.7	50	50	52.4	53.7	101	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	99	90-110	3	10		
Sulfate	mg/L	1.1	50	50	51.5	53.1	101	104	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530368 3530369

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953028 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	ND	50	50	51.7	51.3	103	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.4	109	96	90-110	12	10	R1	
Sulfate	mg/L	ND	50	50	51.5	50.7	103	101	90-110	2	10		

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QUALIFIERS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953001	DGWC-2				
92583953002	DGWC-21				
92583953003	DGWC-22				
92583953004	DGWC-23				
92583953005	DGWC-42				
92583953008	DGWC-20				
92583953009	DGWC-47				
92583953011	DGWC-4				
92583953012	DGWC-5				
92583953013	DGWC-15				
92583953014	DGWC-17				
92583953015	DGWC-48				
92583953019	DGWC-8				
92583953020	DGWC-11				
92583953021	DGWC-12				
92583953022	DGWC-13				
92583953023	DGWC-14				
92583953024	DGWC-19				
92583953026	DGWC-9				
92583953027	DGWC-10				
92583953001	DGWC-2	EPA 3010A	673590	EPA 6010D	673658
92583953002	DGWC-21	EPA 3010A	673590	EPA 6010D	673658
92583953003	DGWC-22	EPA 3010A	673590	EPA 6010D	673658
92583953004	DGWC-23	EPA 3010A	673590	EPA 6010D	673658
92583953005	DGWC-42	EPA 3010A	673590	EPA 6010D	673658
92583953006	FB-1	EPA 3010A	673590	EPA 6010D	673658
92583953007	FB-2	EPA 3010A	673590	EPA 6010D	673658
92583953008	DGWC-20	EPA 3010A	673590	EPA 6010D	673658
92583953009	DGWC-47	EPA 3010A	673590	EPA 6010D	673658
92583953010	FB-3	EPA 3010A	673590	EPA 6010D	673658
92583953011	DGWC-4	EPA 3010A	674583	EPA 6010D	674684
92583953012	DGWC-5	EPA 3010A	674583	EPA 6010D	674684
92583953013	DGWC-15	EPA 3010A	674583	EPA 6010D	674684
92583953014	DGWC-17	EPA 3010A	674583	EPA 6010D	674684
92583953015	DGWC-48	EPA 3010A	674583	EPA 6010D	674684
92583953016	EB-4	EPA 3010A	674583	EPA 6010D	674684
92583953017	FB-4	EPA 3010A	674955	EPA 6010D	675033
92583953018	DUP-4	EPA 3010A	674955	EPA 6010D	675033
92583953019	DGWC-8	EPA 3010A	674955	EPA 6010D	675033
92583953020	DGWC-11	EPA 3010A	674955	EPA 6010D	675033
92583953021	DGWC-12	EPA 3010A	674955	EPA 6010D	675033
92583953022	DGWC-13	EPA 3010A	674955	EPA 6010D	675033
92583953023	DGWC-14	EPA 3010A	674955	EPA 6010D	675033
92583953024	DGWC-19	EPA 3010A	674955	EPA 6010D	675033
92583953025	FB-5	EPA 3010A	674955	EPA 6010D	675033
92583953026	DGWC-9	EPA 3010A	674955	EPA 6010D	675033
92583953027	DGWC-10	EPA 3010A	674955	EPA 6010D	675033

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4
Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953028	FB-6	EPA 3010A	674955	EPA 6010D	675033
92583953029	DUP-5	EPA 3010A	674955	EPA 6010D	675033
92583953001	DGWC-2	EPA 3005A	673615	EPA 6020B	673659
92583953002	DGWC-21	EPA 3005A	673615	EPA 6020B	673659
92583953003	DGWC-22	EPA 3005A	673615	EPA 6020B	673659
92583953004	DGWC-23	EPA 3005A	673615	EPA 6020B	673659
92583953005	DGWC-42	EPA 3005A	673615	EPA 6020B	673659
92583953006	FB-1	EPA 3005A	673615	EPA 6020B	673659
92583953007	FB-2	EPA 3005A	673615	EPA 6020B	673659
92583953008	DGWC-20	EPA 3005A	673615	EPA 6020B	673659
92583953009	DGWC-47	EPA 3005A	673615	EPA 6020B	673659
92583953010	FB-3	EPA 3005A	673615	EPA 6020B	673659
92583953011	DGWC-4	EPA 3005A	675780	EPA 6020B	675870
92583953012	DGWC-5	EPA 3005A	675780	EPA 6020B	675870
92583953013	DGWC-15	EPA 3005A	675780	EPA 6020B	675870
92583953014	DGWC-17	EPA 3005A	675780	EPA 6020B	675870
92583953015	DGWC-48	EPA 3005A	675780	EPA 6020B	675870
92583953016	EB-4	EPA 3005A	675780	EPA 6020B	675870
92583953017	FB-4	EPA 3005A	675780	EPA 6020B	675870
92583953018	DUP-4	EPA 3005A	675780	EPA 6020B	675870
92583953019	DGWC-8	EPA 3005A	675780	EPA 6020B	675870
92583953020	DGWC-11	EPA 3005A	675780	EPA 6020B	675870
92583953021	DGWC-12	EPA 3005A	675780	EPA 6020B	675870
92583953022	DGWC-13	EPA 3005A	675780	EPA 6020B	675870
92583953023	DGWC-14	EPA 3005A	675780	EPA 6020B	675870
92583953024	DGWC-19	EPA 3005A	675780	EPA 6020B	675870
92583953025	FB-5	EPA 3005A	675780	EPA 6020B	675870
92583953026	DGWC-9	EPA 3005A	675834	EPA 6020B	675916
92583953027	DGWC-10	EPA 3005A	675834	EPA 6020B	675916
92583953028	FB-6	EPA 3005A	675834	EPA 6020B	675916
92583953029	DUP-5	EPA 3005A	675834	EPA 6020B	675916
92583953001	DGWC-2	EPA 7470A	674969	EPA 7470A	675136
92583953002	DGWC-21	EPA 7470A	674969	EPA 7470A	675136
92583953003	DGWC-22	EPA 7470A	674969	EPA 7470A	675136
92583953004	DGWC-23	EPA 7470A	674969	EPA 7470A	675136
92583953005	DGWC-42	EPA 7470A	674969	EPA 7470A	675136
92583953006	FB-1	EPA 7470A	674969	EPA 7470A	675136
92583953007	FB-2	EPA 7470A	674969	EPA 7470A	675136
92583953008	DGWC-20	EPA 7470A	674969	EPA 7470A	675136
92583953009	DGWC-47	EPA 7470A	675271	EPA 7470A	675500
92583953010	FB-3	EPA 7470A	675271	EPA 7470A	675500
92583953011	DGWC-4	EPA 7470A	675271	EPA 7470A	675500
92583953012	DGWC-5	EPA 7470A	675271	EPA 7470A	675500
92583953013	DGWC-15	EPA 7470A	675271	EPA 7470A	675500
92583953014	DGWC-17	EPA 7470A	675271	EPA 7470A	675500
92583953015	DGWC-48	EPA 7470A	675271	EPA 7470A	675500

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953016	EB-4	EPA 7470A	675271	EPA 7470A	675500
92583953017	FB-4	EPA 7470A	675271	EPA 7470A	675500
92583953018	DUP-4	EPA 7470A	675271	EPA 7470A	675500
92583953019	DGWC-8	EPA 7470A	675271	EPA 7470A	675500
92583953020	DGWC-11	EPA 7470A	675271	EPA 7470A	675500
92583953021	DGWC-12	EPA 7470A	675271	EPA 7470A	675500
92583953022	DGWC-13	EPA 7470A	675271	EPA 7470A	675500
92583953023	DGWC-14	EPA 7470A	675271	EPA 7470A	675500
92583953024	DGWC-19	EPA 7470A	675271	EPA 7470A	675500
92583953025	FB-5	EPA 7470A	675271	EPA 7470A	675500
92583953026	DGWC-9	EPA 7470A	675271	EPA 7470A	675500
92583953027	DGWC-10	EPA 7470A	675271	EPA 7470A	675500
92583953028	FB-6	EPA 7470A	675271	EPA 7470A	675500
92583953029	DUP-5	EPA 7470A	675274	EPA 7470A	675501
92583953001	DGWC-2	SM 2540C-2015	674001		
92583953002	DGWC-21	SM 2540C-2015	674001		
92583953003	DGWC-22	SM 2540C-2015	674001		
92583953004	DGWC-23	SM 2540C-2015	674001		
92583953005	DGWC-42	SM 2540C-2015	674001		
92583953006	FB-1	SM 2540C-2015	674001		
92583953007	FB-2	SM 2540C-2015	674001		
92583953008	DGWC-20	SM 2540C-2015	674255		
92583953009	DGWC-47	SM 2540C-2015	674255		
92583953010	FB-3	SM 2540C-2015	674255		
92583953011	DGWC-4	SM 2540C-2015	674255		
92583953012	DGWC-5	SM 2540C-2015	674961		
92583953013	DGWC-15	SM 2540C-2015	674961		
92583953014	DGWC-17	SM 2540C-2015	674961		
92583953015	DGWC-48	SM 2540C-2015	674961		
92583953016	EB-4	SM 2540C-2015	674961		
92583953017	FB-4	SM 2540C-2015	674961		
92583953018	DUP-4	SM 2540C-2015	674961		
92583953019	DGWC-8	SM 2540C-2015	674961		
92583953020	DGWC-11	SM 2540C-2015	674961		
92583953021	DGWC-12	SM 2540C-2015	674961		
92583953022	DGWC-13	SM 2540C-2015	675199		
92583953023	DGWC-14	SM 2540C-2015	675199		
92583953024	DGWC-19	SM 2540C-2015	675199		
92583953025	FB-5	SM 2540C-2015	675199		
92583953026	DGWC-9	SM 2540C-2015	675202		
92583953027	DGWC-10	SM 2540C-2015	675202		
92583953028	FB-6	SM 2540C-2015	675202		
92583953029	DUP-5	SM 2540C-2015	675202		
92583953001	DGWC-2	SM 2320B	795372		
92583953002	DGWC-21	SM 2320B	795372		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953003	DGWC-22	SM 2320B	795372		
92583953004	DGWC-23	SM 2320B	795372		
92583953005	DGWC-42	SM 2320B	795372		
92583953006	FB-1	SM 2320B	795582		
92583953007	FB-2	SM 2320B	795582		
92583953008	DGWC-20	SM 2320B	795582		
92583953009	DGWC-47	SM 2320B	795582		
92583953010	FB-3	SM 2320B	795582		
92583953011	DGWC-4	SM 2320B	795662		
92583953012	DGWC-5	SM 2320B	795662		
92583953013	DGWC-15	SM 2320B	795662		
92583953014	DGWC-17	SM 2320B	795662		
92583953015	DGWC-48	SM 2320B	795662		
92583953016	EB-4	SM 2320B	795662		
92583953017	FB-4	SM 2320B	795662		
92583953018	DUP-4	SM 2320B	795662		
92583953019	DGWC-8	SM 2320B	796365		
92583953020	DGWC-11	SM 2320B	796365		
92583953021	DGWC-12	SM 2320B	796365		
92583953022	DGWC-13	SM 2320B	796618		
92583953023	DGWC-14	SM 2320B	796618		
92583953024	DGWC-19	SM 2320B	796618		
92583953025	FB-5	SM 2320B	796618		
92583953026	DGWC-9	SM 2320B	796922		
92583953027	DGWC-10	SM 2320B	796923		
92583953028	FB-6	SM 2320B	796923		
92583953029	DUP-5	SM 2320B	796923		
92583953001	DGWC-2	EPA 300.0 Rev 2.1 1993	673554		
92583953002	DGWC-21	EPA 300.0 Rev 2.1 1993	673554		
92583953003	DGWC-22	EPA 300.0 Rev 2.1 1993	673554		
92583953004	DGWC-23	EPA 300.0 Rev 2.1 1993	673554		
92583953005	DGWC-42	EPA 300.0 Rev 2.1 1993	673554		
92583953006	FB-1	EPA 300.0 Rev 2.1 1993	673554		
92583953007	FB-2	EPA 300.0 Rev 2.1 1993	673554		
92583953008	DGWC-20	EPA 300.0 Rev 2.1 1993	673554		
92583953009	DGWC-47	EPA 300.0 Rev 2.1 1993	673554		
92583953010	FB-3	EPA 300.0 Rev 2.1 1993	673554		
92583953011	DGWC-4	EPA 300.0 Rev 2.1 1993	673904		
92583953012	DGWC-5	EPA 300.0 Rev 2.1 1993	673904		
92583953013	DGWC-15	EPA 300.0 Rev 2.1 1993	673904		
92583953014	DGWC-17	EPA 300.0 Rev 2.1 1993	673904		
92583953015	DGWC-48	EPA 300.0 Rev 2.1 1993	673906		
92583953016	EB-4	EPA 300.0 Rev 2.1 1993	673906		
92583953017	FB-4	EPA 300.0 Rev 2.1 1993	673906		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953018	DUP-4	EPA 300.0 Rev 2.1 1993	673906		
92583953019	DGWC-8	EPA 300.0 Rev 2.1 1993	674218		
92583953020	DGWC-11	EPA 300.0 Rev 2.1 1993	674220		
92583953021	DGWC-12	EPA 300.0 Rev 2.1 1993	674220		
92583953022	DGWC-13	EPA 300.0 Rev 2.1 1993	674220		
92583953023	DGWC-14	EPA 300.0 Rev 2.1 1993	674220		
92583953024	DGWC-19	EPA 300.0 Rev 2.1 1993	674220		
92583953025	FB-5	EPA 300.0 Rev 2.1 1993	674220		
92583953026	DGWC-9	EPA 300.0 Rev 2.1 1993	674479		
92583953027	DGWC-10	EPA 300.0 Rev 2.1 1993	674479		
92583953028	FB-6	EPA 300.0 Rev 2.1 1993	674479		
92583953029	DUP-5	EPA 300.0 Rev 2.1 1993	674479		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92583953**

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 1/21/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 3.7 Correction Factor: ± 0.2
Add/Subtract (°C)

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.9

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

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B
Required Project Information:

Report To: JoU Abraham
Company Name: sullivanoss@southemco.com
Address: 2480 Marner Road
Atlanta, GA 30338

Project Name: Plant McDonough AP-2, 3/4
Purchase Order #:
Price Profile #:
Regulatory Agency:
Site/Location: GA

Page: 1 of 1

#	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	PRESERVATIVES						ANALYSIS TEST					Residual Chlorine (Y/N)	pH	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
					Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App II/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228					
1	DGWC-2	G	1/20/2022	11:00	6	3	3	3												
2	DGWC-21	G	1/20/2022	16:13	6	3	3	3												
3	DGWC-22	G	1/20/2022	12:55	6	3	3	3												
4	DGWC-23	G	1/20/2022	10:55	6	3	3	3												
5	DGWC-42	G	1/20/2022	14:28	6	3	3	3												
6	FB-1	G	1/20/2022	12:40	6	3	3	3												
7	FB-2	G	1/20/2022	14:28	6	3	3	3												
8	DGWC-20	G	1/21/2022	11:15	6	3	3	3												
9	DGWC-47	G	1/21/2022	8:23	6	3	3	5												
10	FB-3	G	1/21/2022	11:55	6	3	3	3												

Handwritten notes: Jode Marquespack/ JNU... DATE Signed: 1/21/22

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

MATRIX	CODE
Docking Water	DW
Waste Water	WT
Storm Water	SW
Product	P
Spillage	S
Drain	DL
Water	W
Other	OT
Unknown	U

REQUISITIONED BY / AFFILIATION: JNU / Sample
DATE: 1/21/22
TIME: 5:32
ACCEPTED BY / AFFILIATION: Charles Fedas
DATE: 1/21/22
TIME: 11:12/5:33
SAMPLE CONDITIONS:
TEMP in C:
Received on Ice (Y/N):
Custody Sealed Cooler (Y/N):
Samples Intact (Y/N):

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #: **WO# : 92583953**

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 112512

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

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

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

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92583953

Courier: Commercial Fed Ex UPS USPS Other: Client

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/25/22
LOH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.0 Correction Factor: +0.1
Add/Subtract (°C) 3.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):
USDA Regulated Soil (N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Client Information:
 Client Name: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road, Atlanta, GA 30338
 Contact: (404) 596-7238
 Email: jkornham@gaouthinc.com

Section B - Regulatory Project Information:
 Report To: Jodi Kornham
 Project Name: Plant McDonough AP-2, 3&4
 Project #: 185940821

Section C - Invoice Information:
 Attention: ksc@scdcs@gaouthinc.com
 Company Name: GAOUTH INC
 Address: 185940821
 Project Manager: Nicole D'Ono
 State: GA

ADDITIONAL COMMENTS	APPROVAL BY / DATE	DATE	TIME	ANALYSIS TEST							RECEIVED ON ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLES INTACT (Y/N)				
				WT	WT	WT	WT	WT	WT	WT				WT	WT		
<p style="text-align: center;">SAMPLE ID One Character per box. (A-Z 0-9 / -) Sample IDs must be unique</p>	DGWC-8																
	DGWC-11																
	DGWC-12																
	DGWC-13																
	DGWC-14																
	DGWC-18																
P8-5																	

APPROVALS:

Client Approval: *[Signature]* M. O'Neil 1/26/12 8:11 AM

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

TEMP In C: _____

DATE Signed: 1/26/12

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92583953**

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: WT 1/22/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 084 Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: ±0.2
Add/Subtract (°C) 4.2

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2
USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B
Required Project Information:

Report To: John Abraham
Copy To: Order
Project Name: Plant McDonough AP 2, 3/4
Project # : 16544023

Section C
Invoice Information:

Attention: accuorders@accuanal.com
Company Name:
Address:
Purchase Order #:
Purchase Project Manager: Nicole D'Ono
Price Profile #:

Regulatory Agency:
State / Location: GA
Page: 1 of 1

MATERIAL	DATE	TIME	# OF CONTAINERS	Preservatives						Analyzes Test				Residual Chlorine (Y/N)
				Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV Total Metals	Cl, F, 604, TDS	
SAMPLE ID One Character per box. (A-Z, 0-9, -, /) Sample IDs must be unique MATRIX CODE Degradeable Matter: <u>WT</u> Heavy Metals: <u>WT</u> Volatile Matter: <u>WT</u> Fixed Solids: <u>WT</u> Total Solids: <u>WT</u> Other: <u>WT</u> Temperature: <u>WT</u>	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAV C=C-COMP) DATE TIME SAMPLE TEMP AT COLLECTION # OF CONTAINERS Unpreserved - Ice H2SO4 HNO3 + Ice HCl NaOH + Zn Acetate Na2S2O3 Methanol Other Analyzes Test App III/IV Total Metals Cl, F, 604, TDS Radium 226/228 Mg, Na, K CO3+HCO2 Residual Chlorine (Y/N)	DGMWC-9 DGMWC-10 FB-8 Dgp-5	G G G G	1/26/2022 1/26/2022 17-10 1/26/2022	16:30 14:30 17:10 -	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3	pH = 3.88 pH = 4.80
ADDITIONAL COMMENTS REQUISITION BY: <u>M/BHT</u> DATE: <u>1-27-22</u> TIME: <u>8:12</u> ACCEPTED BY: <u>M. BHT</u> DATE: <u>1-27-22</u> TIME: <u>8:12</u> APLICATION: <u>M/BHT</u> DATE: <u>1-27-22</u> TIME: <u>8:50</u> <u>M. BHT</u> DATE: <u>1-27-22</u> TIME: <u>8:50</u> USE WAGERSPACK / SP... DATE SIGNED: <u>1-27-22</u>														

April 20, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2, 3/4 RAD
Pace Project No.: 92583950

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 27, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583950001	DGWC-2	Water	01/20/22 11:03	01/21/22 15:32
92583950002	DGWC-21	Water	01/20/22 16:13	01/21/22 15:32
92583950003	DGWC-22	Water	01/20/22 12:55	01/21/22 15:32
92583950004	DGWC-23	Water	01/20/22 10:55	01/21/22 15:32
92583950005	DGWC-42	Water	01/20/22 14:28	01/21/22 15:32
92583950006	FB-1	Water	01/20/22 12:40	01/21/22 15:32
92583950007	FB-2	Water	01/20/22 14:28	01/21/22 15:32
92583950008	DGWC-20	Water	01/21/22 11:15	01/21/22 15:32
92583950009	DGWC-47	Water	01/21/22 09:23	01/21/22 15:32
92583950010	FB-3	Water	01/21/22 11:55	01/21/22 15:32
92583950011	DGWC-4	Water	01/24/22 13:10	01/25/22 09:04
92583950012	DGWC-5	Water	01/24/22 10:32	01/25/22 09:04
92583950013	DGWC-15	Water	01/24/22 14:59	01/25/22 09:04
92583950014	DGWC-17	Water	01/24/22 14:45	01/25/22 09:04
92583950015	DGWC-48	Water	01/24/22 10:10	01/25/22 09:04
92583950016	EB-4	Water	01/24/22 14:55	01/25/22 09:04
92583950017	FB-4	Water	01/24/22 15:55	01/25/22 09:04
92583950018	DUP-4	Water	01/24/22 00:00	01/25/22 09:04
92583950019	DGWC-8	Water	01/25/22 11:45	01/26/22 08:51
92583950020	DGWC-11	Water	01/25/22 15:16	01/26/22 08:51
92583950021	DGWC-12	Water	01/25/22 10:48	01/26/22 08:51
92583950022	DGWC-13	Water	01/25/22 11:05	01/26/22 08:51
92583950023	DGWC-14	Water	01/25/22 09:47	01/26/22 08:51
92583950024	DGWC-19	Water	01/25/22 14:40	01/26/22 08:51
92583950025	FB-5	Water	01/25/22 10:15	01/26/22 08:51
92583950026	DGWC-9	Water	01/26/22 16:30	01/27/22 08:50
92583950027	DGWC-10	Water	01/26/22 14:30	01/27/22 08:50
92583950028	FB-6	Water	01/26/22 17:10	01/27/22 08:50
92583950029	DUP-5	Water	01/26/22 00:00	01/27/22 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 RAD
Pace Project No.: 92583950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583950001	DGWC-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950002	DGWC-21	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950003	DGWC-22	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950004	DGWC-23	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950005	DGWC-42	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950006	FB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950007	FB-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950008	DGWC-20	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950009	DGWC-47	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950010	FB-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950011	DGWC-4	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950012	DGWC-5	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950013	DGWC-15	EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 RAD
Pace Project No.: 92583950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583950014	DGWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950015	DGWC-48	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950016	EB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950017	FB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950018	DUP-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950019	DGWC-8	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950020	DGWC-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950021	DGWC-12	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950022	DGWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950023	DGWC-14	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950024	DGWC-19	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950025	FB-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583950026	DGWC-9	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583950027	DGWC-10	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583950028	FB-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583950029	DUP-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-2 Lab ID: 92583950001 Collected: 01/20/22 11:03 Received: 01/21/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.508 ± 0.230 (0.234) C:85% T:NA	pCi/L	02/16/22 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.214 ± 0.328 (0.710) C:74% T:84%	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.722 ± 0.558 (0.944)	pCi/L	02/21/22 10:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-21 Lab ID: 92583950002 Collected: 01/20/22 16:13 Received: 01/21/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.107 ± 0.161 (0.355) C:94% T:NA	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.230 ± 0.262 (0.545) C:84% T:86%	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.337 ± 0.423 (0.900)	pCi/L	02/21/22 10:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-22 **Lab ID: 92583950003** Collected: 01/20/22 12:55 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.244 ± 0.184 (0.323) C:94% T:NA	pCi/L	02/16/22 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0536 ± 0.244 (0.557) C:95% T:85%	pCi/L	02/14/22 15:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.298 ± 0.428 (0.880)	pCi/L	02/21/22 10:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-23 **Lab ID: 92583950004** Collected: 01/20/22 10:55 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.404 ± 0.211 (0.276) C:91% T:NA	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.206 ± 0.298 (0.641) C:85% T:85%	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.610 ± 0.509 (0.917)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-42 Lab ID: 92583950005 Collected: 01/20/22 14:28 Received: 01/21/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0182 ± 0.129 (0.335) C:92% T:NA	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0283 ± 0.268 (0.620) C:86% T:86%	pCi/L	02/14/22 15:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0465 ± 0.397 (0.955)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: FB-1 **Lab ID: 92583950006** Collected: 01/20/22 12:40 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0112 ± 0.127 (0.337) C:90% T:NA	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.385 ± 0.312 (0.617) C:88% T:82%	pCi/L	02/14/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.396 ± 0.439 (0.954)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: FB-2 **Lab ID: 92583950007** Collected: 01/20/22 14:28 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0455 ± 0.141 (0.345) C:94% T:NA	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.343 ± 0.333 (0.681) C:80% T:82%	pCi/L	02/14/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.389 ± 0.474 (1.03)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-20 Lab ID: 92583950008 Collected: 01/21/22 11:15 Received: 01/21/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.355 ± 0.229 (0.379) C:84% T:NA	pCi/L	02/16/22 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.471 ± 0.373 (0.743) C:81% T:88%	pCi/L	02/14/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.826 ± 0.602 (1.12)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-47 **Lab ID: 92583950009** Collected: 01/21/22 09:23 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.300 ± 0.237 (0.449) C:88% T:NA	pCi/L	02/16/22 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.485 ± 0.378 (0.744) C:76% T:82%	pCi/L	02/14/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.785 ± 0.615 (1.19)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: FB-3 **Lab ID: 92583950010** Collected: 01/21/22 11:55 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.00221 ± 0.109 (0.304) C:95% T:NA	pCi/L	02/16/22 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0882 ± 0.348 (0.796) C:66% T:78%	pCi/L	02/14/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0882 ± 0.457 (1.10)	pCi/L	02/21/22 10:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-4 **Lab ID: 92583950011** Collected: 01/24/22 13:10 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.330 ± 0.159 (0.201) C:100% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.614 ± 0.417 (0.786) C:80% T:69%	pCi/L	02/17/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.944 ± 0.576 (0.987)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-5 **Lab ID: 92583950012** Collected: 01/24/22 10:32 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.260 ± 0.147 (0.207) C:94% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.547 ± 0.336 (0.616) C:82% T:88%	pCi/L	02/17/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.807 ± 0.483 (0.823)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-15 **Lab ID: 92583950013** Collected: 01/24/22 14:59 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.135 ± 0.143 (0.293) C:94% T:NA	pCi/L	02/22/22 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.399 ± 0.380 (0.777) C:81% T:80%	pCi/L	02/17/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.534 ± 0.523 (1.07)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-17 **Lab ID: 92583950014** Collected: 01/24/22 14:45 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.102 ± 0.0991 (0.185) C:98% T:NA	pCi/L	02/22/22 08:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.590 ± 0.328 (0.574) C:81% T:91%	pCi/L	02/17/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.692 ± 0.427 (0.759)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-48 **Lab ID: 92583950015** Collected: 01/24/22 10:10 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.228 ± 0.138 (0.204) C:97% T:NA	pCi/L	02/22/22 08:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.440 ± 0.344 (0.676) C:78% T:90%	pCi/L	02/17/22 16:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.668 ± 0.482 (0.880)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: EB-4 **Lab ID: 92583950016** Collected: 01/24/22 14:55 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0122 ± 0.0585 (0.183) C:98% T:NA	pCi/L	02/22/22 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.209 ± 0.325 (0.704) C:80% T:89%	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.209 ± 0.384 (0.887)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: FB-4 **Lab ID: 92583950017** Collected: 01/24/22 15:55 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00152 ± 0.0878 (0.242) C:99% T:NA	pCi/L	02/22/22 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.496 ± 0.396 (0.783) C:74% T:86%	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.496 ± 0.484 (1.03)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DUP-4 **Lab ID: 92583950018** Collected: 01/24/22 00:00 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.315 ± 0.176 (0.274) C:97% T:NA	pCi/L	02/22/22 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.217 ± 0.281 (0.598) C:85% T:91%	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.532 ± 0.457 (0.872)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-8 **Lab ID: 92583950019** Collected: 01/25/22 11:45 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0721 ± 0.115 (0.256) C:78% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.284 ± 0.289 (0.592) C:86% T:89%	pCi/L	02/17/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.356 ± 0.404 (0.848)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-11 Lab ID: 92583950020 Collected: 01/25/22 15:16 Received: 01/26/22 08:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.103 ± 0.103 (0.194) C:97% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.880 ± 0.447 (0.792) C:82% T:83%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.983 ± 0.550 (0.986)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-12 Lab ID: 92583950021 Collected: 01/25/22 10:48 Received: 01/26/22 08:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.364 ± 0.169 (0.191) C:92% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.375 ± 0.341 (0.695) C:81% T:93%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.739 ± 0.510 (0.886)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-13 Lab ID: 92583950022 Collected: 01/25/22 11:05 Received: 01/26/22 08:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.254 ± 0.139 (0.177) C:96% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0253 ± 0.328 (0.769) C:78% T:89%	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.254 ± 0.467 (0.946)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-14 **Lab ID: 92583950023** Collected: 01/25/22 09:47 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.229 ± 0.140 (0.201) C:88% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0763 ± 0.341 (0.811) C:77% T:83%	pCi/L	02/17/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.229 ± 0.481 (1.01)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-19 **Lab ID: 92583950024** Collected: 01/25/22 14:40 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.115 ± 0.122 (0.244) C:96% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.300 ± 0.433 (0.931) C:72% T:79%	pCi/L	02/17/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.415 ± 0.555 (1.18)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: FB-5 **Lab ID: 92583950025** Collected: 01/25/22 10:15 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0463 ± 0.0892 (0.205) C:99% T:NA	pCi/L	02/22/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.458 ± 0.337 (0.653) C:79% T:88%	pCi/L	02/17/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.504 ± 0.426 (0.858)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-9 **Lab ID: 92583950026** Collected: 01/26/22 16:30 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.237 ± 0.133 (0.169) C:96% T:NA	pCi/L	02/22/22 10:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.552 ± 0.343 (0.635) C:84% T:86%	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.789 ± 0.476 (0.804)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DGWC-10 **Lab ID: 92583950027** Collected: 01/26/22 14:30 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.182 ± 0.132 (0.225) C:93% T:NA	pCi/L	02/22/22 10:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.473 (0.799) C:81% T:84%	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.21 ± 0.605 (1.02)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: FB-6 **Lab ID: 92583950028** Collected: 01/26/22 17:10 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0230 ± 0.0763 (0.192) C:97% T:NA	pCi/L	02/22/22 10:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.496 ± 0.387 (0.760) C:79% T:78%	pCi/L	02/17/22 16:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.519 ± 0.463 (0.952)	pCi/L	02/22/22 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Sample: DUP-5 **Lab ID: 92583950029** Collected: 01/26/22 00:00 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.456 ± 0.188 (0.189) C:88% T:NA	pCi/L	02/22/22 10:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.36 ± 0.576 (0.974) C:74% T:90%	pCi/L	02/17/22 16:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.82 ± 0.764 (1.16)	pCi/L	02/22/22 15:30	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

QC Batch: 482061 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

METHOD BLANK: 2330295 Matrix: Water

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.129 ± 0.257 (0.566) C:88% T:86%	pCi/L	02/14/22 12:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

QC Batch: 481462

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

METHOD BLANK: 2326510

Matrix: Water

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0222 ± 0.102 (0.264) C:95% T:NA	pCi/L	02/16/22 08:33	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD
Pace Project No.: 92583950

QC Batch: 482649 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

METHOD BLANK: 2332796 Matrix: Water
Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

Table with 5 columns: Parameter, Act ± Unc (MDC) Carr Trac, Units, Analyzed, Qualifiers. Row 1: Radium-228, 0.0799 ± 0.287 (0.651) C:86% T:84%, pCi/L, 02/17/22 16:21

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

QC Batch: 482302

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

METHOD BLANK: 2331313

Matrix: Water

Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0497 ± 0.0775 (0.168) C:96% T:NA	pCi/L	02/22/22 08:34	

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QUALIFIERS

Project: MCDONOUGH AP-2, 3/4 RAD
Pace Project No.: 92583950

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583950001	DGWC-2	EPA 9315	481462		
92583950002	DGWC-21	EPA 9315	481462		
92583950003	DGWC-22	EPA 9315	481462		
92583950004	DGWC-23	EPA 9315	481462		
92583950005	DGWC-42	EPA 9315	481462		
92583950006	FB-1	EPA 9315	481462		
92583950007	FB-2	EPA 9315	481462		
92583950008	DGWC-20	EPA 9315	481462		
92583950009	DGWC-47	EPA 9315	481462		
92583950010	FB-3	EPA 9315	481462		
92583950011	DGWC-4	EPA 9315	482302		
92583950012	DGWC-5	EPA 9315	482302		
92583950013	DGWC-15	EPA 9315	482302		
92583950014	DGWC-17	EPA 9315	482302		
92583950015	DGWC-48	EPA 9315	482302		
92583950016	EB-4	EPA 9315	482302		
92583950017	FB-4	EPA 9315	482302		
92583950018	DUP-4	EPA 9315	482302		
92583950019	DGWC-8	EPA 9315	482302		
92583950020	DGWC-11	EPA 9315	482302		
92583950021	DGWC-12	EPA 9315	482302		
92583950022	DGWC-13	EPA 9315	482302		
92583950023	DGWC-14	EPA 9315	482302		
92583950024	DGWC-19	EPA 9315	482302		
92583950025	FB-5	EPA 9315	482302		
92583950026	DGWC-9	EPA 9315	482302		
92583950027	DGWC-10	EPA 9315	482302		
92583950028	FB-6	EPA 9315	482302		
92583950029	DUP-5	EPA 9315	482302		
92583950001	DGWC-2	EPA 9320	482061		
92583950002	DGWC-21	EPA 9320	482061		
92583950003	DGWC-22	EPA 9320	482061		
92583950004	DGWC-23	EPA 9320	482061		
92583950005	DGWC-42	EPA 9320	482061		
92583950006	FB-1	EPA 9320	482061		
92583950007	FB-2	EPA 9320	482061		
92583950008	DGWC-20	EPA 9320	482061		
92583950009	DGWC-47	EPA 9320	482061		
92583950010	FB-3	EPA 9320	482061		
92583950011	DGWC-4	EPA 9320	482649		
92583950012	DGWC-5	EPA 9320	482649		
92583950013	DGWC-15	EPA 9320	482649		
92583950014	DGWC-17	EPA 9320	482649		
92583950015	DGWC-48	EPA 9320	482649		
92583950016	EB-4	EPA 9320	482649		
92583950017	FB-4	EPA 9320	482649		
92583950018	DUP-4	EPA 9320	482649		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 RAD
Pace Project No.: 92583950

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583950019	DGWC-8	EPA 9320	482649		
92583950020	DGWC-11	EPA 9320	482649		
92583950021	DGWC-12	EPA 9320	482649		
92583950022	DGWC-13	EPA 9320	482649		
92583950023	DGWC-14	EPA 9320	482649		
92583950024	DGWC-19	EPA 9320	482649		
92583950025	FB-5	EPA 9320	482649		
92583950026	DGWC-9	EPA 9320	482649		
92583950027	DGWC-10	EPA 9320	482649		
92583950028	FB-6	EPA 9320	482649		
92583950029	DUP-5	EPA 9320	482649		
92583950001	DGWC-2	Total Radium Calculation	485106		
92583950002	DGWC-21	Total Radium Calculation	485106		
92583950003	DGWC-22	Total Radium Calculation	485106		
92583950004	DGWC-23	Total Radium Calculation	485106		
92583950005	DGWC-42	Total Radium Calculation	485106		
92583950006	FB-1	Total Radium Calculation	485106		
92583950007	FB-2	Total Radium Calculation	485106		
92583950008	DGWC-20	Total Radium Calculation	485106		
92583950009	DGWC-47	Total Radium Calculation	485106		
92583950010	FB-3	Total Radium Calculation	485106		
92583950011	DGWC-4	Total Radium Calculation	485711		
92583950012	DGWC-5	Total Radium Calculation	485711		
92583950013	DGWC-15	Total Radium Calculation	485711		
92583950014	DGWC-17	Total Radium Calculation	485711		
92583950015	DGWC-48	Total Radium Calculation	485711		
92583950016	EB-4	Total Radium Calculation	485711		
92583950017	FB-4	Total Radium Calculation	485711		
92583950018	DUP-4	Total Radium Calculation	485711		
92583950019	DGWC-8	Total Radium Calculation	485711		
92583950020	DGWC-11	Total Radium Calculation	485711		
92583950021	DGWC-12	Total Radium Calculation	485711		
92583950022	DGWC-13	Total Radium Calculation	485711		
92583950023	DGWC-14	Total Radium Calculation	485711		
92583950024	DGWC-19	Total Radium Calculation	485711		
92583950025	FB-5	Total Radium Calculation	485711		
92583950026	DGWC-9	Total Radium Calculation	485711		
92583950027	DGWC-10	Total Radium Calculation	485711		
92583950028	FB-6	Total Radium Calculation	485711		
92583950029	DUP-5	Total Radium Calculation	485711		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92583953**

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 1/21/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 3.7 Correction Factor: ± 0.2
Add/Subtract (°C)

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.9

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

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Marner Road
 City: Atlanta, GA 30338
 Email: jlabraham@southernco.com
 Phone: (404) 506-7239
 Fax: (404) 506-7239
 Project #: 10 Day TAT

Section B Required Project Information:

Report To: JGU Abraham
 Copy To: Golder
 Purchase Order #: Plant McDonough AP-2, 3/4
 Project Name: Plant McDonough AP-2, 3/4
 Project #: 165849821

Section C Invoice Information:

Attention: sstevens@southernco.com
 Company Name:
 Address:
 POC Name: POC Project Manager
 POC Email: Nicholas.Donko
 Invoice Profile #:

Page: 1 of 1

Regulatory Agency:
 Site Location: GA

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

#	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Residual Chlorine (Y/N)	pH
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol				
1	DGWC-2	G	1/20/2022	11:03		6	3	3	3								pH = 5.93
2	DGWC-21	G	1/20/2022	16:13		6	3	3	3								pH = 5.73
3	DGWC-22	G	1/20/2022	12:55		6	3	3	3								pH = 5.72
4	DGWC-23	G	1/20/2022	10:55		6	3	3	3								pH = 5.95
5	DGWC-42	G	1/20/2022	14:28		6	3	3	3								pH = 5.27
6	FB-1	G	1/20/2022	12:40		6	3	3	3								pH = 4.47
7	FB-2	G	1/20/2022	14:28		6	3	3	3								pH = 3.72
8	DGWC-20	G	1/21/2022	11:15		6	3	3	3								
9	DGWC-47	G	1/21/2022	8:23		6	3	3	5								
10	FB-3	G	1/21/2022	11:55		6	3	3	3								

ADDITIONAL COMMENTS: *APU - Sample 1/21/22 15:32*

REQUISITIONED BY / AFFILIATION: *APU - Sample 1/21/22 15:32*

ACCEPTED BY / AFFILIATION: *Charles Kelly 1/21/22 15:32*

DATE SIGNED: *1/21/22*

Jude Wojcieszak / APU

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #: **WO# : 92583953**

Courier: Commercial Fed Ex Pace UPS USPS Other: Client

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 1/25/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

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

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

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #: **WO# : 92583953**

Courier: Commercial Fed Ex UPS USPS Other: Client Pace

PM: NMG Due Date: 02/04/22
 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *1/25/22*
LOH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: *214* Type of Ice: Wet Blue None

Cooler Temp: *3.0* Correction Factor: *+0.1*
3.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):
 USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92583953**

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: WT 1/22/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 084 Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: ±0.2
Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/16/2022
Worklist: 64961
Matrix: DW

Method Blank Assessment	
MB Sample ID	2331313
MB concentration:	0.050
M/B Counting Uncertainty:	0.077
MB MDC:	0.168
MB Numerical Performance Indicator:	1.26
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS(D (Y or N)?)	Y
Count Date:	LCS64961	2/22/2022	
Spike I.D.:	19-033	2/22/2022	
Decay Corrected Spike Concentration (pCi/mL):	24.029		
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.504		0.512
Target Conc. (pCi/L, g, F):	4.770		4.694
Uncertainty (Calculated):	0.067		0.066
Result (pCi/L, g, F):	5.011		5.361
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.522		0.539
Numerical Performance Indicator:	0.90		2.41
Percent Recovery:	105.06%		114.21%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment		LCS(D (Y or N)?)	Y
Sample I.D.:	LCS64961	2/22/2022	
Duplicate Sample I.D.:	LCSD64961	2/22/2022	
Sample Result Counting Uncertainty (pCi/L, g, F):	5.011		0.072
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.361		0.115
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.361		0.231
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.361		0.144
Are sample and/or duplicate results below RL?:	NO		See Below #
Duplicate Numerical Performance Indicator:	-0.915		-1.689
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.35%		104.86%
Duplicate Status vs Numerical Indicator:	N/A		N/A
Duplicate Status vs RPD:	Pass		Fail
% RPD Limit:	25%		25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Results < MDC, NA
Muz/22/22

Batch must be re-prepped due to unacceptable precision

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

AM 2/22/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/13/2022
Worklist: 64893
Matrix: DW



Method Blank Assessment	
MB Sample ID	2326510
MB Concentration:	0.022
M/B Counting Uncertainty:	0.102
MB MDC:	0.264
MB Numerical Performance Indicator:	0.43
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS64893	LCS64893
Count Date:	2/17/2022	2/17/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.030	24.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.511
Target Conc. (pCi/L, g, F):	4.731	4.705
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	5.318	4.917
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.657	0.599
Numerical Performance Indicator:	1.75	0.69
Percent Recovery:	112.42%	104.51%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS64893	LCS64893
Sample I.D.:	92583950001	92583950001
Duplicate Sample I.D.:	92583950001	92583950001
Sample Result (pCi/L, g, F):	0.508	0.508
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.218	0.218
Sample Duplicate Result (pCi/L, g, F):	0.298	0.298
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.194	0.194
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	1.415	1.415
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	52.26%	52.26%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment	MS/MSD	
	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD	
	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepared due to unacceptable precision N/A

CW 2/17/22
JAM 2/17/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/14/2022
Worklist: 64979
Matrix: WJ

Method Blank Assessment	
MB Sample ID	2332796
MB concentration:	0.080
MB 2 Sigma CSU:	0.287
MB MDC:	0.651
MB Numerical Performance Indicator:	Pass
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS64979	LCS64979
Count Date:	2/17/2022	2/17/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.304	36.304
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.806	0.806
Target Conc. (pCi/L, g, F):	4.503	4.506
Uncertainty (Calculated):	0.221	0.221
Result (pCi/L, g, F):	3.263	3.859
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.805	0.898
Numerical Performance Indicator:	-2.91	-1.37
Percent Recovery:	72.46%	85.63%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS64979
Duplicate Sample I.D.:	LCS64979
Sample Result (pCi/L, g, F):	3.263
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.805
Sample Duplicate Result (pCi/L, g, F):	3.859
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.898
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.969
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.67%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten notes and signatures:
2/14/2022
721177
DWA

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 2/10/2022
Worklist: 64947
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2330295
MB concentration:	0.129
MB 2 Sigma CSU:	0.257
MB MDC:	0.566
MB Numerical Performance Indicator:	0.99
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?
Count Date:	2/14/2022	Y
Spike ID:	LCS64947	
Decay Corrected Spike Concentration (pCi/mL):	21-029	
Volume Used (mL):	36.340	
Alliquot Volume (L, g, F):	0.10	
Target Conc. (pCi/L, g, F):	0.805	
Uncertainty (Calculated):	4.514	
Result (pCi/L, g, F):	0.221	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	4.495	
Numerical Performance Indicator:	1.026	
Percent Recovery:	-0.03	
Status vs Numerical Indicator:	99.59%	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	Pass	
Lower % Recovery Limits:	135%	
	60%	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Alliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Alliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Duplicate Sample Assessment	
Sample I.D.:	LCS64947
Duplicate Sample I.D.:	LCS064947
Sample Result (pCi/L, g, F):	4.495
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.026
Sample Duplicate Result (pCi/L, g, F):	5.185
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.194
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.859
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.46%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Matrix Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

M 2/15/22

2/10/22

March 03, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 28, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company

Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583955001	B-63	Water	01/20/22 11:59	01/21/22 15:32
92583955002	B-77	Water	01/20/22 14:12	01/21/22 15:32
92583955003	B-109D	Water	01/20/22 12:58	01/21/22 15:32
92583955004	B-115D	Water	01/20/22 16:32	01/21/22 15:32
92583955005	B-120D	Water	01/20/22 15:43	01/21/22 15:32
92583955006	EB-2	Water	01/20/22 16:55	01/21/22 15:32
92583955007	B-83	Water	01/21/22 12:02	01/21/22 15:32
92583955008	EB-3	Water	01/21/22 12:45	01/21/22 15:32
92583955009	B-104D	Water	01/24/22 12:56	01/25/22 09:04
92583955010	B-107D	Water	01/24/22 09:55	01/25/22 09:04
92583955011	B-108D	Water	01/24/22 13:10	01/25/22 09:04
92583955012	B-111D	Water	01/24/22 11:56	01/25/22 09:04
92583955013	B-66	Water	01/25/22 12:14	01/26/22 08:51
92583955014	B-82	Water	01/25/22 13:43	01/26/22 08:51
92583955015	B-106D	Water	01/25/22 14:33	01/26/22 08:51
92583955016	EB-5	Water	01/25/22 16:20	01/26/22 08:51
92583955017	B-92	Water	01/26/22 12:03	01/27/22 08:50
92583955018	B-93	Water	01/26/22 10:55	01/27/22 08:50
92583955019	B-97	Water	01/26/22 14:22	01/27/22 08:50
92583955020	B-98	Water	01/26/22 13:21	01/27/22 08:50
92583955021	B-101D	Water	01/26/22 13:50	01/27/22 08:50
92583955022	EB-6	Water	01/26/22 15:20	01/27/22 08:50
92583955023	B-56	Water	01/27/22 12:40	01/28/22 15:32
92583955024	B-88	Water	01/27/22 13:15	01/28/22 15:32
92583955025	B-102D	Water	01/27/22 16:25	01/28/22 15:32
92583955026	FB-6	Water	01/27/22 14:00	01/28/22 15:32
92583955027	DUP-6	Water	01/27/22 00:00	01/28/22 15:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955001	B-63	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955002	B-77	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955003	B-109D	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583955004	B-115D	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
92583955005	B-120D	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
92583955006	EB-2	EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583955007	B-83	EPA 6010D	DRB	4	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955008	EB-3	EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955009	B-104D	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583955010	B-107D	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583955011	B-108D	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955012	B-111D	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583955013	B-66	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955014	B-82	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955015	B-106D	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583955016	EB-5	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583955017	B-92	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955018	B-93	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583955019	B-97	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955020	B-98	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955021	B-101D	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955022	EB-6	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583955023	B-56	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583955024	B-88	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583955025	B-102D	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955026	FB-6	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955027	DUP-6	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-63		Lab ID: 92583955001		Collected: 01/20/22 11:59		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:45		
pH	5.46	Std. Units			1		01/24/22 09:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.8	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:04	7440-09-7	
Sodium	11.7	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:04	7440-23-5	
Calcium	22.9	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:04	7440-70-2	
Magnesium	8.0	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:04	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:04	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:04	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:04	7440-39-3	
Beryllium	0.00034J	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:04	7440-41-7	
Boron	0.21	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:04	7440-47-3	
Cobalt	0.039	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:04	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	177	mg/L	10.0	10.0	1		01/26/22 17:45		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	50.8	mg/L	5.0	1.8	1		01/25/22 17:51		
Alkalinity,Bicarbonate (CaCO ₃)	50.8	mg/L	5.0	1.8	1		01/25/22 17:51		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 17:51		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.0	mg/L	1.0	0.60	1		01/25/22 18:14	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-63		Lab ID: 92583955001		Collected: 01/20/22 11:59		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.12	mg/L	0.10	0.050	1		01/25/22 18:14	16984-48-8	
Sulfate	49.4	mg/L	1.0	0.50	1		01/25/22 18:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-77 Lab ID: 92583955002 Collected: 01/20/22 14:12 Received: 01/21/22 15:32 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:46		
pH	6.48	Std. Units			1		01/24/22 09:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.4	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:09	7440-09-7	
Sodium	7.8	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:09	7440-23-5	
Calcium	18.6	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:09	7440-70-2	
Magnesium	6.2	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:09	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:10	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:10	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:10	7440-41-7	
Boron	0.28	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	129	mg/L	10.0	10.0	1		01/26/22 17:45		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	158	mg/L	5.0	1.8	1		01/25/22 17:55		
Alkalinity,Bicarbonate (CaCO3)	158	mg/L	5.0	1.8	1		01/25/22 17:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.0	mg/L	1.0	0.60	1		01/25/22 18:28	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-77		Lab ID: 92583955002		Collected: 01/20/22 14:12		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 18:28	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 18:28	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-109D Lab ID: 92583955003 Collected: 01/20/22 12:58 Received: 01/21/22 15:32 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:46		
pH	6.43	Std. Units			1		01/24/22 09:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	7.4	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:13	7440-09-7	
Sodium	21.1	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:13	7440-23-5	
Calcium	40.0	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:13	7440-70-2	
Magnesium	11.3	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:13	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:16	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:16	7440-38-2	
Barium	0.047	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:16	7440-39-3	
Beryllium	0.000071J	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:16	7440-41-7	
Boron	0.60	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:16	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:16	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	309	mg/L	10.0	10.0	1		01/26/22 17:45		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	99.6	mg/L	5.0	1.8	1		01/25/22 17:59		
Alkalinity,Bicarbonate (CaCO ₃)	99.6	mg/L	5.0	1.8	1		01/25/22 17:59		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 17:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.7	mg/L	1.0	0.60	1		01/25/22 19:24	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-109D		Lab ID: 92583955003		Collected: 01/20/22 12:58	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.11	mg/L	0.10	0.050	1		01/25/22 19:24	16984-48-8	
Sulfate	93.1	mg/L	2.0	1.0	2		01/26/22 10:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-115D		Lab ID: 92583955004		Collected: 01/20/22 16:32		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:46		
pH	5.77	Std. Units			1		01/24/22 09:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	12.2	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:18	7440-09-7	
Sodium	26.7	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:18	7440-23-5	
Calcium	83.6	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:18	7440-70-2	
Magnesium	19.5	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:18	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:22	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:22	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:22	7440-39-3	
Beryllium	0.011	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:22	7440-41-7	
Boron	0.55	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:22	7440-42-8	
Cadmium	0.00029J	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:22	7440-47-3	
Cobalt	0.24	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:22	7439-92-1	
Lithium	0.081	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:22	7439-98-7	
Selenium	0.0022J	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	553	mg/L	10.0	10.0	1		01/26/22 17:45		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	12.0	mg/L	5.0	1.8	1		01/25/22 21:14		M1
Alkalinity,Bicarbonate (CaCO3)	12.0	mg/L	5.0	1.8	1		01/25/22 21:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	15.8	mg/L	1.0	0.60	1		01/25/22 19:38	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-115D		Lab ID: 92583955004		Collected: 01/20/22 16:32	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.59	mg/L	0.10	0.050	1		01/25/22 19:38	16984-48-8	
Sulfate	293	mg/L	7.0	3.5	7		01/26/22 10:32	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-120D		Lab ID: 92583955005		Collected: 01/20/22 15:43		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:46		
pH	5.28	Std. Units			1		01/24/22 09:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	9.8	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:23	7440-09-7	
Sodium	35.7	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:23	7440-23-5	
Calcium	158	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:23	7440-70-2	
Magnesium	34.3	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:23	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:28	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:28	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:28	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:28	7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:28	7440-42-8	
Cadmium	0.00098	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:28	7440-47-3	
Cobalt	0.0045J	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:28	7439-92-1	
Lithium	0.079	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:28	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	816	mg/L	20.0	20.0	1		01/26/22 17:46		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	35.8	mg/L	5.0	1.8	1		01/25/22 21:24		
Alkalinity,Bicarbonate (CaCO ₃)	35.8	mg/L	5.0	1.8	1		01/25/22 21:24		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 21:24		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.0	mg/L	1.0	0.60	1		01/25/22 19:52	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-120D		Lab ID: 92583955005		Collected: 01/20/22 15:43	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 19:52	16984-48-8	
Sulfate	475	mg/L	11.0	5.5	11		01/26/22 10:45	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: EB-2		Lab ID: 92583955006		Collected: 01/20/22 16:55	Received: 01/21/22 15:32	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:28	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:28	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:28	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:28	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:46	7440-36-0		
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:46	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:46	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:46	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:46	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:46	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:46	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:46	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:46	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:46	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:46	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:46	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 20:46	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:59	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	15.0	mg/L	10.0	10.0	1		01/26/22 17:46			
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/25/22 21:28			
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:28			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:28			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 20:05	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 20:05	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 20:05	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-83		Lab ID: 92583955007		Collected: 01/21/22 12:02		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/24/22 09:46		
pH	5.56	Std. Units			1		01/24/22 09:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.5	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:33	7440-09-7	
Sodium	12.1	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:33	7440-23-5	
Calcium	40.8	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:33	7440-70-2	
Magnesium	11.1	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:33	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:52	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:52	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:52	7440-39-3	
Beryllium	0.00039J	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:52	7440-41-7	
Boron	0.32	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:52	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:52	7440-43-9	
Chromium	0.0034J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:52	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:52	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:52	7439-98-7	
Selenium	0.027	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 20:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	236	mg/L	10.0	10.0	1		01/28/22 10:30		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	38.7	mg/L	5.0	1.8	1		01/25/22 21:31		
Alkalinity,Bicarbonate (CaCO ₃)	38.7	mg/L	5.0	1.8	1		01/25/22 21:31		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/25/22 21:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		01/25/22 20:19	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-83 **Lab ID: 92583955007** Collected: 01/21/22 12:02 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 20:19	16984-48-8	
Sulfate	106	mg/L	2.0	1.0	2		01/26/22 11:00	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: EB-3		Lab ID: 92583955008		Collected: 01/21/22 12:45	Received: 01/21/22 15:32	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:52	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:52	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:52	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:52	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 21:04	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:04	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 21:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 21:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 21:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 21:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 21:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 21:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 21:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 21:04	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:04	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	15.0	mg/L	10.0	10.0	1		01/28/22 10:30		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/25/22 21:35		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:35		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 20:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 20:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 20:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-104D		Lab ID: 92583955009		Collected: 01/24/22 12:56		Received: 01/25/22 09:04		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:22		
pH	6.48	Std. Units			1		01/25/22 11:22		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	8.7	mg/L	0.20	0.15	1	02/02/22 14:04	02/03/22 22:59	7440-09-7	M1
Calcium	163	mg/L	1.0	0.12	1	02/02/22 14:04	02/03/22 22:59	7440-70-2	M1
Magnesium	27.8	mg/L	0.050	0.012	1	02/02/22 14:04	02/03/22 22:59	7439-95-4	M1
Sodium	19.7	mg/L	1.0	0.58	1	02/02/22 14:04	02/04/22 12:57	7440-23-5	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0010J	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 16:45	7440-36-0	
Arsenic	0.0035J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:45	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 16:45	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 16:45	7440-41-7	
Boron	0.24	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 16:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 16:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:45	7440-47-3	
Cobalt	0.10	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 16:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 16:45	7439-92-1	
Lithium	0.036	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 16:45	7439-93-2	
Molybdenum	0.00083J	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 16:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 16:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 16:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	806	mg/L	20.0	20.0	1		01/28/22 10:32		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	85.1	mg/L	5.0	1.8	1		01/27/22 16:23		
Alkalinity,Bicarbonate (CaCO ₃)	85.1	mg/L	5.0	1.8	1		01/27/22 16:23		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 16:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.8	mg/L	1.0	0.60	1		01/26/22 22:30	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-104D		Lab ID: 92583955009		Collected: 01/24/22 12:56	Received: 01/25/22 09:04	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.28	mg/L	0.10	0.050	1		01/26/22 22:30	16984-48-8	
Sulfate	423	mg/L	10.0	5.0	10		01/27/22 07:47	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: B-107D									
Lab ID: 92583955010									
Collected: 01/24/22 09:55 Received: 01/25/22 09:04 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:22		
pH	6.05	Std. Units			1		01/25/22 11:22		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.3	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 17:51	7440-09-7	M1
Sodium	20.6	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 17:51	7440-23-5	M1
Calcium	89.9	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 17:51	7440-70-2	M1
Magnesium	32.3	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 17:51	7439-95-4	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 16:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:51	7440-38-2	
Barium	0.092	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 16:51	7440-41-7	
Boron	12.3	mg/L	0.40	0.086	10	02/03/22 10:35	02/04/22 13:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:51	7440-47-3	
Cobalt	0.00088J	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 16:51	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 16:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 16:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	552	mg/L	20.0	20.0	1		01/28/22 10:32		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	31.3	mg/L	5.0	1.8	1		01/27/22 16:26		
Alkalinity,Bicarbonate (CaCO3)	31.3	mg/L	5.0	1.8	1		01/27/22 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:26		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.8	mg/L	1.0	0.60	1		01/26/22 22:44	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-107D **Lab ID: 92583955010** Collected: 01/24/22 09:55 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/26/22 22:44	16984-48-8	
Sulfate	276	mg/L	6.0	3.0	6		01/27/22 08:01	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-108D		Lab ID: 92583955011		Collected: 01/24/22 13:10		Received: 01/25/22 09:04		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:22		
pH	5.99	Std. Units			1		01/25/22 11:22		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.4	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:20	7440-09-7	
Sodium	18.2	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:20	7440-23-5	
Calcium	88.2	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:20	7440-70-2	
Magnesium	34.9	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:20	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 16:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:57	7440-38-2	
Barium	0.056	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 16:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 16:57	7440-41-7	
Boron	6.8	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 16:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 16:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:57	7440-47-3	
Cobalt	0.00061J	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 16:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 16:57	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 16:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 16:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 16:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 16:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	502	mg/L	20.0	20.0	1		01/31/22 19:09		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	26.8	mg/L	5.0	1.8	1		01/27/22 15:41		
Alkalinity,Bicarbonate (CaCO3)	26.8	mg/L	5.0	1.8	1		01/27/22 15:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 15:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	32.9	mg/L	1.0	0.60	1		01/26/22 23:26	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-108D		Lab ID: 92583955011		Collected: 01/24/22 13:10	Received: 01/25/22 09:04	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/26/22 23:26	16984-48-8	
Sulfate	277	mg/L	6.0	3.0	6		01/27/22 08:15	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-111D	Lab ID: 92583955012	Collected: 01/24/22 11:56	Received: 01/25/22 09:04	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/25/22 11:22		
pH	7.11	Std. Units			1		01/25/22 11:22		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	16.6	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:25	7440-09-7	
Sodium	57.0	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:25	7440-23-5	
Calcium	107	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:25	7440-70-2	
Magnesium	11.1	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:25	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 17:03	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:03	7440-38-2	
Barium	0.038	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 17:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 17:03	7440-41-7	
Boron	0.49	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 17:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 17:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:03	7440-47-3	
Cobalt	0.00041J	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 17:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 17:03	7439-92-1	
Lithium	0.026J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 17:03	7439-93-2	
Molybdenum	0.0052J	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 17:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 17:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	566	mg/L	20.0	20.0	1		01/31/22 19:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	131	mg/L	5.0	1.8	1		01/27/22 15:55		
Alkalinity, Bicarbonate (CaCO ₃)	131	mg/L	5.0	1.8	1		01/27/22 15:55		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/27/22 15:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	30.6	mg/L	1.0	0.60	1		01/26/22 23:40	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: B-111D									
Lab ID: 92583955012									
Collected: 01/24/22 11:56									
Received: 01/25/22 09:04									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.38	mg/L	0.10	0.050	1		01/26/22 23:40	16984-48-8	
Sulfate	238	mg/L	5.0	2.5	5		01/27/22 08:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-66		Lab ID: 92583955013		Collected: 01/25/22 12:14		Received: 01/26/22 08:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 10:03		
pH	6.35	Std. Units			1		01/26/22 10:03		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.3	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:29	7440-09-7	
Sodium	35.1	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:29	7440-23-5	
Calcium	54.9	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:29	7440-70-2	
Magnesium	40.9	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:29	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 20:01	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 20:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 20:01	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 20:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 20:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 20:01	7440-47-3	
Cobalt	0.013	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 20:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 20:01	7439-92-1	
Lithium	0.00073J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 20:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 20:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 20:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 20:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	482	mg/L	20.0	20.0	1		02/01/22 13:52		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	96.3	mg/L	5.0	1.8	1		02/02/22 15:24		
Alkalinity,Bicarbonate (CaCO3)	96.3	mg/L	5.0	1.8	1		02/02/22 15:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:24		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.7	mg/L	1.0	0.60	1		01/28/22 06:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-66 **Lab ID: 92583955013** Collected: 01/25/22 12:14 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.12	mg/L	0.10	0.050	1		01/28/22 06:35	16984-48-8	
Sulfate	240	mg/L	6.0	3.0	6		01/28/22 12:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-82 Lab ID: 92583955014 Collected: 01/25/22 13:43 Received: 01/26/22 08:51 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 10:03		
pH	5.07	Std. Units			1		01/26/22 10:03		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.2	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:34	7440-09-7	
Sodium	18.0	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:34	7440-23-5	
Calcium	36.4	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:34	7440-70-2	
Magnesium	80.4	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:34	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 20:37	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:37	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 20:37	7440-39-3	
Beryllium	0.0021	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 20:37	7440-41-7	
Boron	0.70	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:37	7440-42-8	
Cadmium	0.00072	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 20:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:37	7440-47-3	
Cobalt	0.0039J	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 20:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 20:37	7439-92-1	
Lithium	0.00082J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 20:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 20:37	7439-98-7	
Selenium	0.0020J	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 20:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 20:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	668	mg/L	20.0	20.0	1		02/01/22 13:52		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	9.1	mg/L	5.0	1.8	1		02/02/22 18:04		
Alkalinity,Bicarbonate (CaCO ₃)	9.1	mg/L	5.0	1.8	1		02/02/22 18:04		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 18:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		01/28/22 06:49	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-82		Lab ID: 92583955014		Collected: 01/25/22 13:43	Received: 01/26/22 08:51	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 06:49	16984-48-8	
Sulfate	363	mg/L	8.0	4.0	8		01/28/22 13:34	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-106D		Lab ID: 92583955015		Collected: 01/25/22 14:33		Received: 01/26/22 08:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/26/22 10:03		
pH	5.84	Std. Units			1		01/26/22 10:03		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.0	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:39	7440-09-7	
Sodium	15.8	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:39	7440-23-5	
Calcium	40.0	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:39	7440-70-2	
Magnesium	18.0	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:39	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:43	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 20:43	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 20:43	7440-41-7	
Boron	1.2	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:43	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 20:43	7439-92-1	
Lithium	0.0055J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 20:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 20:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	295	mg/L	10.0	10.0	1		02/01/22 13:53		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	25.5	mg/L	5.0	1.8	1		02/02/22 15:33		
Alkalinity,Bicarbonate (CaCO ₃)	25.5	mg/L	5.0	1.8	1		02/02/22 15:33		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 15:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.4	mg/L	1.0	0.60	1		01/28/22 07:02	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-106D		Lab ID: 92583955015		Collected: 01/25/22 14:33	Received: 01/26/22 08:51	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 07:02	16984-48-8	
Sulfate	132	mg/L	3.0	1.5	3		01/28/22 13:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: EB-5		Lab ID: 92583955016		Collected: 01/25/22 16:20	Received: 01/26/22 08:51	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	ND	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:44	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:44	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:44	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:44	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 20:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:49	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 20:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 20:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 20:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 20:49	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:30	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/01/22 13:53		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 15:45		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		01/28/22 07:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 07:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/28/22 07:16	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-92		Lab ID: 92583955017		Collected: 01/26/22 12:03		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:31		
pH	4.50	Std. Units			1		01/27/22 10:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.1	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:58	7440-09-7	
Sodium	18.7	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:58	7440-23-5	
Calcium	96.0	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:58	7440-70-2	
Magnesium	15.5	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:58	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:30	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:30	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:30	7440-39-3	
Beryllium	0.018	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:30	7440-41-7	
Boron	2.7	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:30	7440-42-8	
Cadmium	0.0010	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:30	7440-47-3	
Cobalt	0.071	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:30	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:30	7439-98-7	
Selenium	0.0039J	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 14:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	572	mg/L	10.0	10.0	1		02/01/22 14:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	1.8	1		02/03/22 18:18		
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 18:18		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 18:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.4	mg/L	1.0	0.60	1		01/29/22 17:09	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-92 **Lab ID: 92583955017** Collected: 01/26/22 12:03 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.30	mg/L	0.10	0.050	1		01/29/22 17:09	16984-48-8	
Sulfate	305	mg/L	7.0	3.5	7		01/30/22 03:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-93 Lab ID: 92583955018 Collected: 01/26/22 10:55 Received: 01/27/22 08:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:32		
pH	4.74	Std. Units			1		01/27/22 10:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	7.5	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:12	7440-09-7	
Sodium	25.4	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:12	7440-23-5	
Calcium	141	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:12	7440-70-2	
Magnesium	23.6	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:12	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:48	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:48	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:48	7440-39-3	
Beryllium	0.017	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:48	7440-41-7	
Boron	3.6	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:48	7440-42-8	
Cadmium	0.00079	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:48	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:48	7440-47-3	
Cobalt	0.064	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:48	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:48	7439-98-7	
Selenium	0.0063	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	766	mg/L	20.0	20.0	1		02/01/22 14:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	4.0J	mg/L	5.0	1.8	1		02/03/22 18:21		
Alkalinity,Bicarbonate (CaCO ₃)	4.0J	mg/L	5.0	1.8	1		02/03/22 18:21		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 18:21		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.7	mg/L	1.0	0.60	1		01/29/22 17:23	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-93		Lab ID: 92583955018		Collected: 01/26/22 10:55	Received: 01/27/22 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.41	mg/L	0.10	0.050	1		01/29/22 17:23	16984-48-8	
Sulfate	477	mg/L	11.0	5.5	11		01/30/22 04:03	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-97		Lab ID: 92583955019		Collected: 01/26/22 14:22		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:32		
pH	6.52	Std. Units			1		01/27/22 10:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.5	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:17	7440-09-7	
Sodium	38.8	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:17	7440-23-5	
Calcium	198	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:17	7440-70-2	
Magnesium	32.6	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:17	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:54	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:54	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:54	7440-39-3	
Beryllium	0.0017	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:54	7440-41-7	
Boron	3.7	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:54	7440-42-8	
Cadmium	0.00055	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:54	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:54	7439-92-1	
Lithium	0.0047J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:54	7439-98-7	
Selenium	0.0015J	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	930	mg/L	20.0	20.0	1		02/01/22 14:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	53.0	mg/L	5.0	1.8	1		02/03/22 16:16		
Alkalinity,Bicarbonate (CaCO ₃)	53.0	mg/L	5.0	1.8	1		02/03/22 16:16		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 16:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	19.8	mg/L	1.0	0.60	1		01/29/22 18:05	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: B-97									
Lab ID: 92583955019									
Collected: 01/26/22 14:22									
Received: 01/27/22 08:50									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.088J	mg/L	0.10	0.050	1		01/29/22 18:05	16984-48-8	
Sulfate	531	mg/L	12.0	6.0	12		01/30/22 04:17	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-98		Lab ID: 92583955020		Collected: 01/26/22 13:21		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:32		
pH	6.52	Std. Units			1		01/27/22 10:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.9	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:22	7440-09-7	
Sodium	4.8	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:22	7440-23-5	
Calcium	31.9	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:22	7440-70-2	
Magnesium	2.2	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:22	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 23:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:00	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 23:00	7440-39-3	
Beryllium	0.000068J	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 23:00	7440-41-7	
Boron	0.12	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 23:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 23:00	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 23:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 23:00	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 23:00	7439-93-2	
Molybdenum	0.0015J	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 23:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 23:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 23:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	139	mg/L	10.0	10.0	1		02/01/22 14:09		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	70.2	mg/L	5.0	1.8	1		02/02/22 22:54		
Alkalinity,Bicarbonate (CaCO ₃)	70.2	mg/L	5.0	1.8	1		02/02/22 22:54		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 22:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		01/29/22 18:19	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-98		Lab ID: 92583955020		Collected: 01/26/22 13:21	Received: 01/27/22 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.13	mg/L	0.10	0.050	1		01/29/22 18:19	16984-48-8	
Sulfate	18.4	mg/L	1.0	0.50	1		01/29/22 18:19	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-101D		Lab ID: 92583955021		Collected: 01/26/22 13:50		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:33		
pH	5.87	Std. Units			1		01/27/22 10:33		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.9	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:27	7440-09-7	
Sodium	19.3	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:27	7440-23-5	
Calcium	49.7	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:27	7440-70-2	
Magnesium	16.4	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:27	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00082J	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 23:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:06	7440-38-2	
Barium	0.062	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 23:06	7440-39-3	
Beryllium	0.000079J	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 23:06	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 23:06	7440-42-8	
Cadmium	0.00011J	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 23:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:06	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 23:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 23:06	7439-92-1	
Lithium	0.0098J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 23:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 23:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 23:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 23:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	290	mg/L	10.0	10.0	1		02/02/22 17:20		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	32.9	mg/L	5.0	1.8	1		02/02/22 22:59		
Alkalinity,Bicarbonate (CaCO ₃)	32.9	mg/L	5.0	1.8	1		02/02/22 22:59		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/02/22 22:59		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.0	mg/L	1.0	0.60	1		01/29/22 18:33	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-101D **Lab ID: 92583955021** Collected: 01/26/22 13:50 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/29/22 18:33	16984-48-8	
Sulfate	144	mg/L	3.0	1.5	3		01/30/22 04:31	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: EB-6		Lab ID: 92583955022		Collected: 01/26/22 15:20		Received: 01/27/22 08:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:32	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:32	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:32	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:32	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 23:18	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:18	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 23:18	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 23:18	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 23:18	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 23:18	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:18	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 23:18	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 23:18	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 23:18	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 23:18	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 23:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 23:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:16	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	19.0	mg/L	10.0	10.0	1		02/02/22 17:20			
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 23:03			
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:03			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:03			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/29/22 18:47	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/29/22 18:47	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		01/29/22 18:47	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-56		Lab ID: 92583955023		Collected: 01/27/22 12:40		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/28/22 16:18		
pH	4.70	Std. Units			1		01/28/22 16:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.1	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:36	7440-09-7	
Sodium	20.7	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:36	7440-23-5	
Calcium	19.8	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:36	7440-70-2	
Magnesium	34.1	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:36	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0011J	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 16:52	7440-36-0	B
Arsenic	0.0045J	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:52	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 16:52	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 16:52	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 16:52	7440-42-8	
Cadmium	0.00025J	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 16:52	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:52	7440-47-3	
Cobalt	0.052	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 16:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 16:52	7439-92-1	
Lithium	0.0061J	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 16:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 16:52	7439-98-7	
Selenium	0.0066	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 16:52	7782-49-2	
Thallium	0.00032J	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 16:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	344	mg/L	10.0	10.0	1		02/03/22 12:40		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	1.8	1		02/03/22 20:30		
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 20:30		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 20:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.6	mg/L	1.0	0.60	1		02/04/22 18:15	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-56		Lab ID: 92583955023		Collected: 01/27/22 12:40		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.21	mg/L	0.10	0.050	1		02/04/22 18:15	16984-48-8	
Sulfate	185	mg/L	5.0	2.5	5		02/05/22 04:16	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-88		Lab ID: 92583955024		Collected: 01/27/22 13:15		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/28/22 16:18		
pH	5.50	Std. Units			1		01/28/22 16:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	11.2	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 10:16	7440-09-7	
Sodium	29.7	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 10:16	7440-23-5	
Calcium	105	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 10:16	7440-70-2	
Magnesium	37.4	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 10:16	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 16:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:58	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 16:58	7440-39-3	
Beryllium	0.0019	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 16:58	7440-41-7	
Boron	2.7	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 16:58	7440-42-8	
Cadmium	0.0036	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 16:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:58	7440-47-3	
Cobalt	0.0038J	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 16:58	7440-48-4	
Lead	0.0022	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 16:58	7439-92-1	
Lithium	0.0066J	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 16:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 16:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 16:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 16:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	654	mg/L	20.0	20.0	1		02/03/22 12:40		
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	13.9	mg/L	5.0	1.8	1		02/03/22 20:33		
Alkalinity,Bicarbonate (CaCO ₃)	13.9	mg/L	5.0	1.8	1		02/03/22 20:33		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		02/03/22 20:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.8	mg/L	1.0	0.60	1		02/04/22 18:29	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-88		Lab ID: 92583955024		Collected: 01/27/22 13:15	Received: 01/28/22 15:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/04/22 18:29	16984-48-8	
Sulfate	371	mg/L	9.0	4.5	9		02/05/22 04:57	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: B-102D		Lab ID: 92583955025		Collected: 01/27/22 16:25		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/28/22 16:18		
pH	5.33	Std. Units			1		01/28/22 16:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.9	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 10:21	7440-09-7	
Sodium	20.4	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 10:21	7440-23-5	
Calcium	86.9	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 10:21	7440-70-2	
Magnesium	17.3	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 10:21	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 17:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:04	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 17:04	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 17:04	7440-41-7	
Boron	2.7	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 17:04	7440-42-8	
Cadmium	0.00091	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 17:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:04	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 17:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 17:04	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 17:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 17:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 17:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 17:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	459	mg/L	10.0	10.0	1		02/03/22 12:40		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	10.1	mg/L	5.0	1.8	1		02/03/22 20:37		
Alkalinity,Bicarbonate (CaCO3)	10.1	mg/L	5.0	1.8	1		02/03/22 20:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 20:37		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.4	mg/L	1.0	0.60	1		02/04/22 18:43	16887-00-6	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-102D		Lab ID: 92583955025		Collected: 01/27/22 16:25		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.062J	mg/L	0.10	0.050	1		02/04/22 18:43	16984-48-8	
Sulfate	231	mg/L	6.0	3.0	6		02/05/22 05:11	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: FB-6		Lab ID: 92583955026		Collected: 01/27/22 14:00	Received: 01/28/22 15:32	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 09:45	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 09:45	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 09:45	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 09:45	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 17:10	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:10	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 17:10	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 17:10	7440-41-7		
Boron	0.014J	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 17:10	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 17:10	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:10	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 17:10	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 17:10	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 17:10	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 17:10	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 17:10	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 17:10	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:56	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	14.0	mg/L	10.0	10.0	1		02/03/22 12:40			
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/03/22 16:47			
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 16:47			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 16:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/04/22 18:56	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/04/22 18:56	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/04/22 18:56	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

Sample: DUP-6		Lab ID: 92583955027		Collected: 01/27/22 00:00		Received: 01/28/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.1	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 09:50	7440-09-7	
Sodium	21.4	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 09:50	7440-23-5	
Calcium	20.1	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 09:50	7440-70-2	
Magnesium	34.4	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 09:50	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00081J	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 17:16	7440-36-0	B
Arsenic	0.0047J	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:16	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 17:16	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 17:16	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 17:16	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 17:16	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:16	7440-47-3	
Cobalt	0.052	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 17:16	7439-92-1	
Lithium	0.0059J	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 17:16	7439-98-7	
Selenium	0.0064	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 17:16	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 17:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 16:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	349	mg/L	10.0	10.0	1		02/03/22 12:41		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/08/22 20:17		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/08/22 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/08/22 20:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		02/04/22 19:10	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/04/22 19:10	16984-48-8	
Sulfate	184	mg/L	5.0	2.5	5		02/05/22 05:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch:	673590	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 3525723 Matrix: Water
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 16:54	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 16:54	
Potassium	mg/L	ND	0.20	0.15	01/25/22 16:54	
Sodium	mg/L	ND	1.0	0.58	01/25/22 16:54	

LABORATORY CONTROL SAMPLE: 3525724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525725 3525726

Parameter	Units	92583953001		3525725		3525726		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.					MSD Result
Calcium	mg/L	44.6	1	45.6	1	45.2	1	100	56	75-125	1	20 M1
Magnesium	mg/L	9.2	1	10.4	1	10.1	1	118	95	75-125	2	20
Potassium	mg/L	6.0	1	6.9	1	7.0	1	96	106	75-125	1	20
Sodium	mg/L	10.4	1	11.8	1	11.3	1	144	90	75-125	5	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch:	675195	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3533851 Matrix: Water
Associated Lab Samples: 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/01/22 17:42	
Magnesium	mg/L	ND	0.050	0.012	02/01/22 17:42	
Potassium	mg/L	ND	0.20	0.15	02/01/22 17:42	
Sodium	mg/L	ND	1.0	0.58	02/01/22 17:42	

LABORATORY CONTROL SAMPLE: 3533852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533853 3533854

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92583955010	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	89.9	1	1	83.9	89.0	-601	-84	75-125	6	20	M1	
Magnesium	mg/L	32.3	1	1	31.0	32.8	-138	49	75-125	6	20	M1	
Potassium	mg/L	6.3	1	1	6.8	7.2	54	99	75-125	6	20	M1	
Sodium	mg/L	20.6	1	1	20.2	21.2	-44	62	75-125	5	20	M1	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 675554	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955009

METHOD BLANK: 3535646 Matrix: Water

Associated Lab Samples: 92583955009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/03/22 22:50	
Magnesium	mg/L	ND	0.050	0.012	02/03/22 22:50	
Potassium	mg/L	ND	0.20	0.15	02/03/22 22:50	
Sodium	mg/L	ND	1.0	0.58	02/03/22 22:50	

LABORATORY CONTROL SAMPLE: 3535647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	112	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535648 3535649

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583955009	Result	Spike Conc.	Spike Conc.						
Calcium	mg/L	163	1	1	175	172	1180	964	75-125	1	20 M1
Magnesium	mg/L	27.8	1	1	30.1	30.0	226	216	75-125	0	20 M1
Potassium	mg/L	8.7	1	1	10.4	10.3	170	157	75-125	1	20 M1
Sodium	mg/L	19.7	1	1	23.0	22.8	331	308	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 673615 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 3525835 Matrix: Water
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/26/22 12:50	
Arsenic	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Barium	mg/L	ND	0.0050	0.00067	01/26/22 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	01/26/22 12:50	
Boron	mg/L	ND	0.040	0.0086	01/26/22 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	01/26/22 12:50	
Chromium	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	01/26/22 12:50	
Lead	mg/L	ND	0.0010	0.00089	01/26/22 12:50	
Lithium	mg/L	ND	0.030	0.00073	01/26/22 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	01/26/22 12:50	
Selenium	mg/L	ND	0.0050	0.0014	01/26/22 12:50	
Thallium	mg/L	ND	0.0010	0.00018	01/26/22 12:50	

LABORATORY CONTROL SAMPLE: 3525836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525837 3525838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953002	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	3525837		3525838		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Arsenic	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Barium	mg/L	0.024	0.1	0.1	0.12	0.12	98	95	75-125	2	20		
Beryllium	mg/L	0.00019J	0.1	0.1	0.091	0.088	91	88	75-125	3	20		
Boron	mg/L	6.9	1	1	8.0	7.8	108	86	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	95	95	75-125	0	20		
Cobalt	mg/L	0.0076	0.1	0.1	0.10	0.10	95	95	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Lithium	mg/L	0.0058J	0.1	0.1	0.099	0.094	93	88	75-125	6	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	96	93	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 675780 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012, 92583955013

METHOD BLANK: 3536808 Matrix: Water
Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012, 92583955013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 16:32	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 16:32	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 16:32	
Boron	mg/L	ND	0.040	0.0086	02/03/22 16:32	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 16:32	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 16:32	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 16:32	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 16:32	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 16:32	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 16:32	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 16:32	

LABORATORY CONTROL SAMPLE: 3536809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.083	83	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.087	87	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.087	87	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3536810 3536811

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953011 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	108	109	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	3536810		3536811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	104	103	75-125	1	20		
Beryllium	mg/L	0.00033J	0.1	0.1	0.092	0.091	92	90	75-125	2	20		
Boron	mg/L	5.1	1	1	5.9	5.7	77	53	75-125	4	20	M1	
Cadmium	mg/L	0.00098	0.1	0.1	0.098	0.10	97	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Cobalt	mg/L	0.0019J	0.1	0.1	0.098	0.098	96	96	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	2	20		
Lithium	mg/L	0.0038J	0.1	0.1	0.10	0.098	96	95	75-125	1	20		
Molybdenum	mg/L	0.0045J	0.1	0.1	0.10	0.10	96	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.12	0.12	115	116	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 675834 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

METHOD BLANK: 3537236 Matrix: Water
Associated Lab Samples: 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 20:25	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 20:25	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 20:25	
Boron	mg/L	ND	0.040	0.0086	02/03/22 20:25	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 20:25	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 20:25	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 20:25	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 20:25	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 20:25	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 20:25	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 20:25	

LABORATORY CONTROL SAMPLE: 3537237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953026	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	111	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	3537238		3537239		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92583953026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	0.012	0.1	0.1	0.11	0.11	100	101	75-125	1	20		
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	102	104	75-125	2	20		
Beryllium	mg/L	0.0054	0.1	0.1	0.10	0.11	98	100	75-125	2	20		
Boron	mg/L	0.69	1	1	1.7	1.7	96	102	75-125	4	20		
Cadmium	mg/L	0.00059	0.1	0.1	0.098	0.099	97	99	75-125	1	20		
Chromium	mg/L	0.0029J	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Cobalt	mg/L	0.22	0.1	0.1	0.31	0.32	88	101	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.086	0.087	86	86	75-125	0	20		
Lithium	mg/L	0.029J	0.1	0.1	0.13	0.13	102	104	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	109	75-125	1	20		
Selenium	mg/L	0.025	0.1	0.1	0.13	0.13	103	105	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.083	0.085	83	84	75-125	2	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 676716 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3541772 Matrix: Water
Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00082J	0.0030	0.00078	02/09/22 16:40	
Arsenic	mg/L	ND	0.0050	0.0011	02/09/22 16:40	
Barium	mg/L	ND	0.0050	0.00067	02/09/22 16:40	
Beryllium	mg/L	ND	0.00050	0.000054	02/09/22 16:40	
Boron	mg/L	ND	0.040	0.0086	02/09/22 16:40	
Cadmium	mg/L	ND	0.00050	0.00011	02/09/22 16:40	
Chromium	mg/L	ND	0.0050	0.0011	02/09/22 16:40	
Cobalt	mg/L	ND	0.0050	0.00039	02/09/22 16:40	
Lead	mg/L	ND	0.0010	0.00089	02/09/22 16:40	
Lithium	mg/L	ND	0.030	0.00073	02/09/22 16:40	
Molybdenum	mg/L	ND	0.010	0.00074	02/09/22 16:40	
Selenium	mg/L	ND	0.0050	0.0014	02/09/22 16:40	
Thallium	mg/L	ND	0.0010	0.00018	02/09/22 16:40	

LABORATORY CONTROL SAMPLE: 3541773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	105	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541774 3541775

Parameter	Units	92585697002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	4	20	
Arsenic	mg/L	1.3J ug/L	0.1	0.1	0.099	0.099	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	3541774		3541775		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585697002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	238 ug/L	0.1	0.1	0.34	0.34	103	100	75-125	1	20		
Beryllium	mg/L	1.5 ug/L	0.1	0.1	0.096	0.098	95	97	75-125	2	20		
Boron	mg/L	11.6J ug/L	1	1	0.98	1.0	97	101	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.10	95	101	75-125	6	20		
Chromium	mg/L	1.1J ug/L	0.1	0.1	0.099	0.10	98	100	75-125	3	20		
Cobalt	mg/L	1.9J ug/L	0.1	0.1	0.10	0.097	99	95	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Lithium	mg/L	6.9J ug/L	0.1	0.1	0.10	0.099	95	92	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 676525 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008, 92583955009, 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 3541062 Matrix: Water
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008, 92583955009, 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/22 13:28	

LABORATORY CONTROL SAMPLE: 3541063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541064 3541065

Parameter	Units	92583955001		3541065		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0023	89	91	75-125	3	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	676529	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3541084 Matrix: Water

Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/22 14:45	

LABORATORY CONTROL SAMPLE: 3541085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541086 3541087

Parameter	Units	92583955017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	90	87	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 674001 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006

METHOD BLANK: 3527668 Matrix: Water
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/26/22 17:40	

LABORATORY CONTROL SAMPLE: 3527669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3527670

Parameter	Units	92583746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	215	0	25	

SAMPLE DUPLICATE: 3527671

Parameter	Units	92583955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	177	164	8	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	674255	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955007, 92583955008, 92583955009, 92583955010

METHOD BLANK: 3528806 Matrix: Water
Associated Lab Samples: 92583955007, 92583955008, 92583955009, 92583955010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 674961

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955011, 92583955012

METHOD BLANK: 3532863

Matrix: Water

Associated Lab Samples: 92583955011, 92583955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/31/22 19:09	

LABORATORY CONTROL SAMPLE: 3532864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3532865

Parameter	Units	92583955011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	502	526	5	25	

SAMPLE DUPLICATE: 3532866

Parameter	Units	92583953014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	422	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 675199 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 3533876 Matrix: Water
Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 13:52	

LABORATORY CONTROL SAMPLE: 3533877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3533878

Parameter	Units	92583953022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	269	5	25	

SAMPLE DUPLICATE: 3533879

Parameter	Units	92584522003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	137	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	675202	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020

METHOD BLANK: 3533883 Matrix: Water
Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 14:06	

LABORATORY CONTROL SAMPLE: 3533884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3533885

Parameter	Units	92584543008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	52.0	9	25	

SAMPLE DUPLICATE: 3533886

Parameter	Units	92585000001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	66.0	16	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 675522 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955021, 92583955022

METHOD BLANK: 3535377 Matrix: Water
Associated Lab Samples: 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/02/22 17:20	

LABORATORY CONTROL SAMPLE: 3535378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 3535379

Parameter	Units	92583955021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	290	301	4	25	

SAMPLE DUPLICATE: 3535380

Parameter	Units	92584814001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4960000 ug/L	4580	8	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 675783 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3536822 Matrix: Water
Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/03/22 12:37	

LABORATORY CONTROL SAMPLE: 3536823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3536824

Parameter	Units	92584785018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	288	5	25	

SAMPLE DUPLICATE: 3536825

Parameter	Units	92583603003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	146	6	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 795302 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583955001, 92583955002, 92583955003

METHOD BLANK: 4229437 Matrix: Water
Associated Lab Samples: 92583955001, 92583955002, 92583955003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	

LABORATORY CONTROL SAMPLE & LCSD: 4229438 4229439

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	40.6	43.0	102	108	90-110	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229440 4229441

Parameter	Units	10595205001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	24.5	40	40	57.6	55.0	83	76	80-120	5	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229637 4229638

Parameter	Units	10594190002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	330	40	40	368	367	94	92	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	795372	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 4229775 Matrix: Water

Associated Lab Samples: 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/25/22 20:46	

LABORATORY CONTROL SAMPLE & LCSD: 4229776 4229777

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	40.3	42.1	101	105	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229778 4229779

Parameter	Units	92583955004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	12.0	40	40	44.3	43.6	81	79	80-120	2	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 795662 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

METHOD BLANK: 4230834 Matrix: Water
Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/27/22 15:32	

LABORATORY CONTROL SAMPLE & LCSD: 4230835 4230836

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	41.8	37.4	105	94	90-110	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230837 4230838

Parameter	Units	92583955011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	26.8	40	40	66.4	66.4	99	99	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230839 4230840

Parameter	Units	10595396002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	111	40	40	140	149	73	96	80-120	6	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 796618	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 4234697 Matrix: Water
Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 14:45	

LABORATORY CONTROL SAMPLE & LCSD: 4234698 4234699

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.0	42.0	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234700 4234701

Parameter	Units	92583600008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	192	40	40	232	232	99	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234702 4234703

Parameter	Units	10595445007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	490	40	40	529	530	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 796922	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955020, 92583955021, 92583955022

METHOD BLANK: 4235794 Matrix: Water

Associated Lab Samples: 92583955020, 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/02/22 21:14	

LABORATORY CONTROL SAMPLE & LCSD: 4235795 4235796

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.2	42.2	106	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235797 4235798

Parameter	Units	10596266001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	20.9	40	40	60.9	60.9	100	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 796924 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955017, 92583955018

METHOD BLANK: 4235804 Matrix: Water
Associated Lab Samples: 92583955017, 92583955018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/03/22 14:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 14:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 14:42	

LABORATORY CONTROL SAMPLE & LCSD: 4235805 4235806

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.8	42.0	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235807 4235808

Parameter	Units	10595854005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	127	40	40	166	166	99	98	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235809 4235810

Parameter	Units	92585058002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	132	40	40	171	170	98	97	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 796925 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583955019, 92583955023, 92583955024, 92583955025, 92583955026

METHOD BLANK: 4235811 Matrix: Water
Associated Lab Samples: 92583955019, 92583955023, 92583955024, 92583955025, 92583955026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/03/22 16:05	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/03/22 16:05	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/03/22 16:05	

LABORATORY CONTROL SAMPLE & LCSD: 4235812 4235813

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.5	42.5	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235814 4235815

Parameter	Units	92583955019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	53.0	40	40	92.6	92.8	99	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235816 4235817

Parameter	Units	10595798001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	164	40	40	204	204	98	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 797671 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583955027

METHOD BLANK: 4238674 Matrix: Water
Associated Lab Samples: 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	02/08/22 15:29	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/08/22 15:29	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	02/08/22 15:29	

LABORATORY CONTROL SAMPLE & LCSD: 4238675 4238676

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	41.5	41.3	104	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238677 4238678

Parameter	Units	10596588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	22.6	40	40	61.8	60.9	98	96	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238679 4238680

Parameter	Units	10596637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	16.8	40	40	56.5	58.4	99	104	80-120	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch:	673554	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 3525639 Matrix: Water
Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 13:04	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 13:04	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 13:04	

LABORATORY CONTROL SAMPLE: 3525640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525641 3525642

Parameter	Units	92583953001		3525642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	2.0	50	50	53.1	53.7	102	103	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	0	10
Sulfate	mg/L	101	50	50	145	146	89	91	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525643 3525644

Parameter	Units	92583953001		3525644		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	2.0	50	50	50.2	52.2	96	101	90-110	4	10
Fluoride	mg/L	ND	2.5	2.5	2.2	2.6	88	102	90-110	15	10 M1, R1
Sulfate	mg/L	101	50	50	49.6	48.9	-102	-104	90-110	1	10 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 673904 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

METHOD BLANK: 3527216 Matrix: Water
Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/26/22 17:51	
Fluoride	mg/L	ND	0.10	0.050	01/26/22 17:51	
Sulfate	mg/L	ND	1.0	0.50	01/26/22 17:51	

LABORATORY CONTROL SAMPLE: 3527217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527218 3527219

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584141001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	18.4	18.4	50	50	69.0	69.2	101	102	90-110	0	10	
Fluoride	mg/L	0.41	0.41	2.5	2.5	2.9	2.9	100	100	90-110	1	10	
Sulfate	mg/L	14.2	14.2	50	50	64.1	64.1	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527220 3527221

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584178003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.1	2.1	50	50	53.4	54.4	102	105	90-110	2	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.4	2.4	93	96	90-110	3	10	
Sulfate	mg/L	11.6	11.6	50	50	62.4	63.0	102	103	90-110	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 674220 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 3528706 Matrix: Water
Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/28/22 03:48	
Fluoride	mg/L	ND	0.10	0.050	01/28/22 03:48	
Sulfate	mg/L	ND	1.0	0.50	01/28/22 03:48	

LABORATORY CONTROL SAMPLE: 3528707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528708 3528709

Parameter	Units	92583953020		3528708		3528709		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	14.1	14.1	50	50	66.6	66.4	105	105	90-110	0	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.5	2.5	99	100	90-110	1	10	
Sulfate	mg/L	250	250	50	50	297	288	94	77	90-110	3	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528710 3528711

Parameter	Units	92584465001		3528710		3528711		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	8.3	8.3	50	50	60.5	61.3	104	106	90-110	1	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10	
Sulfate	mg/L	4.5	4.5	50	50	56.1	56.5	103	104	90-110	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 674479 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

METHOD BLANK: 3530364 Matrix: Water
Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/29/22 12:30	
Fluoride	mg/L	ND	0.10	0.050	01/29/22 12:30	
Sulfate	mg/L	ND	1.0	0.50	01/29/22 12:30	

LABORATORY CONTROL SAMPLE: 3530365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530366 3530367

Parameter	Units	92584825001		MSD		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	1.7	50	50	52.4	53.7	101	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	99	90-110	3	10		
Sulfate	mg/L	1.1	50	50	51.5	53.1	101	104	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530368 3530369

Parameter	Units	92583953028		MSD		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	ND	50	50	51.7	51.3	103	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.4	109	96	90-110	12	10	R1	
Sulfate	mg/L	ND	50	50	51.5	50.7	103	101	90-110	2	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.
Pace Project No.: 92583955

QC Batch: 675484 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3535178 Matrix: Water
Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/04/22 12:13	
Fluoride	mg/L	ND	0.10	0.050	02/04/22 12:13	
Sulfate	mg/L	ND	1.0	0.50	02/04/22 12:13	

LABORATORY CONTROL SAMPLE: 3535179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535180 3535181

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585451002 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	65.5	50	50	101	102	71	74	90-110	1	10	M1	
Fluoride	mg/L	0.46	2.5	2.5	2.9	2.9	97	97	90-110	0	10		
Sulfate	mg/L	122	50	50	169	170	94	96	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535182 3535183

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584785016 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	4.9	50	50	57.1	56.8	104	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	100	90-110	0	10		
Sulfate	mg/L	89.9	50	50	117	117	54	55	90-110	0	10	M1	

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QUALIFIERS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955001	B-63				
92583955002	B-77				
92583955003	B-109D				
92583955004	B-115D				
92583955005	B-120D				
92583955007	B-83				
92583955009	B-104D				
92583955010	B-107D				
92583955011	B-108D				
92583955012	B-111D				
92583955013	B-66				
92583955014	B-82				
92583955015	B-106D				
92583955017	B-92				
92583955018	B-93				
92583955019	B-97				
92583955020	B-98				
92583955021	B-101D				
92583955023	B-56				
92583955024	B-88				
92583955025	B-102D				
92583955001	B-63	EPA 3010A	673590	EPA 6010D	673658
92583955002	B-77	EPA 3010A	673590	EPA 6010D	673658
92583955003	B-109D	EPA 3010A	673590	EPA 6010D	673658
92583955004	B-115D	EPA 3010A	673590	EPA 6010D	673658
92583955005	B-120D	EPA 3010A	673590	EPA 6010D	673658
92583955006	EB-2	EPA 3010A	673590	EPA 6010D	673658
92583955007	B-83	EPA 3010A	673590	EPA 6010D	673658
92583955008	EB-3	EPA 3010A	673590	EPA 6010D	673658
92583955009	B-104D	EPA 3010A	675554	EPA 6010D	675629
92583955010	B-107D	EPA 3010A	675195	EPA 6010D	675308
92583955011	B-108D	EPA 3010A	675195	EPA 6010D	675308
92583955012	B-111D	EPA 3010A	675195	EPA 6010D	675308
92583955013	B-66	EPA 3010A	675195	EPA 6010D	675308
92583955014	B-82	EPA 3010A	675195	EPA 6010D	675308
92583955015	B-106D	EPA 3010A	675195	EPA 6010D	675308
92583955016	EB-5	EPA 3010A	675195	EPA 6010D	675308
92583955017	B-92	EPA 3010A	675195	EPA 6010D	675308
92583955018	B-93	EPA 3010A	675195	EPA 6010D	675308
92583955019	B-97	EPA 3010A	675195	EPA 6010D	675308
92583955020	B-98	EPA 3010A	675195	EPA 6010D	675308
92583955021	B-101D	EPA 3010A	675195	EPA 6010D	675308
92583955022	EB-6	EPA 3010A	675195	EPA 6010D	675308
92583955023	B-56	EPA 3010A	675195	EPA 6010D	675308
92583955024	B-88	EPA 3010A	675195	EPA 6010D	675308
92583955025	B-102D	EPA 3010A	675195	EPA 6010D	675308
92583955026	FB-6	EPA 3010A	675195	EPA 6010D	675308

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955027	DUP-6	EPA 3010A	675195	EPA 6010D	675308
92583955001	B-63	EPA 3005A	673615	EPA 6020B	673659
92583955002	B-77	EPA 3005A	673615	EPA 6020B	673659
92583955003	B-109D	EPA 3005A	673615	EPA 6020B	673659
92583955004	B-115D	EPA 3005A	673615	EPA 6020B	673659
92583955005	B-120D	EPA 3005A	673615	EPA 6020B	673659
92583955006	EB-2	EPA 3005A	673615	EPA 6020B	673659
92583955007	B-83	EPA 3005A	673615	EPA 6020B	673659
92583955008	EB-3	EPA 3005A	673615	EPA 6020B	673659
92583955009	B-104D	EPA 3005A	675780	EPA 6020B	675870
92583955010	B-107D	EPA 3005A	675780	EPA 6020B	675870
92583955011	B-108D	EPA 3005A	675780	EPA 6020B	675870
92583955012	B-111D	EPA 3005A	675780	EPA 6020B	675870
92583955013	B-66	EPA 3005A	675780	EPA 6020B	675870
92583955014	B-82	EPA 3005A	675834	EPA 6020B	675916
92583955015	B-106D	EPA 3005A	675834	EPA 6020B	675916
92583955016	EB-5	EPA 3005A	675834	EPA 6020B	675916
92583955017	B-92	EPA 3005A	675834	EPA 6020B	675916
92583955018	B-93	EPA 3005A	675834	EPA 6020B	675916
92583955019	B-97	EPA 3005A	675834	EPA 6020B	675916
92583955020	B-98	EPA 3005A	675834	EPA 6020B	675916
92583955021	B-101D	EPA 3005A	675834	EPA 6020B	675916
92583955022	EB-6	EPA 3005A	675834	EPA 6020B	675916
92583955023	B-56	EPA 3005A	676716	EPA 6020B	677023
92583955024	B-88	EPA 3005A	676716	EPA 6020B	677023
92583955025	B-102D	EPA 3005A	676716	EPA 6020B	677023
92583955026	FB-6	EPA 3005A	676716	EPA 6020B	677023
92583955027	DUP-6	EPA 3005A	676716	EPA 6020B	677023
92583955001	B-63	EPA 7470A	676525	EPA 7470A	676704
92583955002	B-77	EPA 7470A	676525	EPA 7470A	676704
92583955003	B-109D	EPA 7470A	676525	EPA 7470A	676704
92583955004	B-115D	EPA 7470A	676525	EPA 7470A	676704
92583955005	B-120D	EPA 7470A	676525	EPA 7470A	676704
92583955006	EB-2	EPA 7470A	676525	EPA 7470A	676704
92583955007	B-83	EPA 7470A	676525	EPA 7470A	676704
92583955008	EB-3	EPA 7470A	676525	EPA 7470A	676704
92583955009	B-104D	EPA 7470A	676525	EPA 7470A	676704
92583955010	B-107D	EPA 7470A	676525	EPA 7470A	676704
92583955011	B-108D	EPA 7470A	676525	EPA 7470A	676704
92583955012	B-111D	EPA 7470A	676525	EPA 7470A	676704
92583955013	B-66	EPA 7470A	676525	EPA 7470A	676704
92583955014	B-82	EPA 7470A	676525	EPA 7470A	676704
92583955015	B-106D	EPA 7470A	676525	EPA 7470A	676704
92583955016	EB-5	EPA 7470A	676525	EPA 7470A	676704
92583955017	B-92	EPA 7470A	676529	EPA 7470A	676769
92583955018	B-93	EPA 7470A	676529	EPA 7470A	676769

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955019	B-97	EPA 7470A	676529	EPA 7470A	676769
92583955020	B-98	EPA 7470A	676529	EPA 7470A	676769
92583955021	B-101D	EPA 7470A	676529	EPA 7470A	676769
92583955022	EB-6	EPA 7470A	676529	EPA 7470A	676769
92583955023	B-56	EPA 7470A	676529	EPA 7470A	676769
92583955024	B-88	EPA 7470A	676529	EPA 7470A	676769
92583955025	B-102D	EPA 7470A	676529	EPA 7470A	676769
92583955026	FB-6	EPA 7470A	676529	EPA 7470A	676769
92583955027	DUP-6	EPA 7470A	676529	EPA 7470A	676769
92583955001	B-63	SM 2540C-2015	674001		
92583955002	B-77	SM 2540C-2015	674001		
92583955003	B-109D	SM 2540C-2015	674001		
92583955004	B-115D	SM 2540C-2015	674001		
92583955005	B-120D	SM 2540C-2015	674001		
92583955006	EB-2	SM 2540C-2015	674001		
92583955007	B-83	SM 2540C-2015	674255		
92583955008	EB-3	SM 2540C-2015	674255		
92583955009	B-104D	SM 2540C-2015	674255		
92583955010	B-107D	SM 2540C-2015	674255		
92583955011	B-108D	SM 2540C-2015	674961		
92583955012	B-111D	SM 2540C-2015	674961		
92583955013	B-66	SM 2540C-2015	675199		
92583955014	B-82	SM 2540C-2015	675199		
92583955015	B-106D	SM 2540C-2015	675199		
92583955016	EB-5	SM 2540C-2015	675199		
92583955017	B-92	SM 2540C-2015	675202		
92583955018	B-93	SM 2540C-2015	675202		
92583955019	B-97	SM 2540C-2015	675202		
92583955020	B-98	SM 2540C-2015	675202		
92583955021	B-101D	SM 2540C-2015	675522		
92583955022	EB-6	SM 2540C-2015	675522		
92583955023	B-56	SM 2540C-2015	675783		
92583955024	B-88	SM 2540C-2015	675783		
92583955025	B-102D	SM 2540C-2015	675783		
92583955026	FB-6	SM 2540C-2015	675783		
92583955027	DUP-6	SM 2540C-2015	675783		
92583955001	B-63	SM 2320B	795302		
92583955002	B-77	SM 2320B	795302		
92583955003	B-109D	SM 2320B	795302		
92583955004	B-115D	SM 2320B	795372		
92583955005	B-120D	SM 2320B	795372		
92583955006	EB-2	SM 2320B	795372		
92583955007	B-83	SM 2320B	795372		
92583955008	EB-3	SM 2320B	795372		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955009	B-104D	SM 2320B	795662		
92583955010	B-107D	SM 2320B	795662		
92583955011	B-108D	SM 2320B	795662		
92583955012	B-111D	SM 2320B	795662		
92583955013	B-66	SM 2320B	796618		
92583955014	B-82	SM 2320B	796618		
92583955015	B-106D	SM 2320B	796618		
92583955016	EB-5	SM 2320B	796618		
92583955017	B-92	SM 2320B	796924		
92583955018	B-93	SM 2320B	796924		
92583955019	B-97	SM 2320B	796925		
92583955020	B-98	SM 2320B	796922		
92583955021	B-101D	SM 2320B	796922		
92583955022	EB-6	SM 2320B	796922		
92583955023	B-56	SM 2320B	796925		
92583955024	B-88	SM 2320B	796925		
92583955025	B-102D	SM 2320B	796925		
92583955026	FB-6	SM 2320B	796925		
92583955027	DUP-6	SM 2320B	797671		
92583955001	B-63	EPA 300.0 Rev 2.1 1993	673554		
92583955002	B-77	EPA 300.0 Rev 2.1 1993	673554		
92583955003	B-109D	EPA 300.0 Rev 2.1 1993	673554		
92583955004	B-115D	EPA 300.0 Rev 2.1 1993	673554		
92583955005	B-120D	EPA 300.0 Rev 2.1 1993	673554		
92583955006	EB-2	EPA 300.0 Rev 2.1 1993	673554		
92583955007	B-83	EPA 300.0 Rev 2.1 1993	673554		
92583955008	EB-3	EPA 300.0 Rev 2.1 1993	673554		
92583955009	B-104D	EPA 300.0 Rev 2.1 1993	673904		
92583955010	B-107D	EPA 300.0 Rev 2.1 1993	673904		
92583955011	B-108D	EPA 300.0 Rev 2.1 1993	673904		
92583955012	B-111D	EPA 300.0 Rev 2.1 1993	673904		
92583955013	B-66	EPA 300.0 Rev 2.1 1993	674220		
92583955014	B-82	EPA 300.0 Rev 2.1 1993	674220		
92583955015	B-106D	EPA 300.0 Rev 2.1 1993	674220		
92583955016	EB-5	EPA 300.0 Rev 2.1 1993	674220		
92583955017	B-92	EPA 300.0 Rev 2.1 1993	674479		
92583955018	B-93	EPA 300.0 Rev 2.1 1993	674479		
92583955019	B-97	EPA 300.0 Rev 2.1 1993	674479		
92583955020	B-98	EPA 300.0 Rev 2.1 1993	674479		
92583955021	B-101D	EPA 300.0 Rev 2.1 1993	674479		
92583955022	EB-6	EPA 300.0 Rev 2.1 1993	674479		
92583955023	B-56	EPA 300.0 Rev 2.1 1993	675484		
92583955024	B-88	EPA 300.0 Rev 2.1 1993	675484		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955025	B-102D	EPA 300.0 Rev 2.1 1993	675484		
92583955026	FB-6	EPA 300.0 Rev 2.1 1993	675484		
92583955027	DUP-6	EPA 300.0 Rev 2.1 1993	675484		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92583955



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 1/21/22*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) ± 0.2

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



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

Section A Requested Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Requested Client Information:
 Requester: Georgia Power - Coal Combustion Residuals
 Address: 2460 Marler Road, Atlanta, GA 30339
 Email: jlabraham@scoultier.com
 Phone: (404) 506-7239
 Fax: 10 Day TAT

Required Project Information:
 Report To: Jaiu Abraham
 Copy To: Golder
 Project Name: Plant McDonough AP-2, 3&4 Assessment
 Project #: 66524821

Invoice Information:
 Attention: estimates@scoultier.com
 Company Name:
 Address:
 State: GA
 City: Marietta

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol		

1	B-63	G	1/20/2022	11:59		6	3	3	X	X	X	X	X	X	X			
2	B-77	G	1/20/2022	14:12		6	3	5	X	X	X	X	X	X	X			
3	B-169D	G	1/20/2022	12:58		6	3	3	X	X	X	X	X	X	X			
4	B-115D	G	1/20/2022	16:32		6	3	3	X	X	X	X	X	X	X			
5	B-120D	G	1/20/2022	15:43		6	3	3	X	X	X	X	X	X	X			
6	EB-2	G	1/20/2022	16:55		6	3	3	X	X	X	X	X	X	X			
7	B-83	G	1/21/2022	12:02		6	3	3	X	X	X	X	X	X	X			
8	EB-3	G	1/21/2022	12:45		6	3	3	X	X	X	X	X	X	X			

ADDITIONAL COMMENTS:
 Requested by: Jaiu Abraham
 Date: 1/21/22
 Time: 15:32
 Accepted by: [Signature]
 Date: 1/21/22
 Time: 15:32

TEMP in C _____

Received on ice (Y/N) _____

Custody Sealed Cooler (Y/N) _____

Samples intact (Y/N) _____

Residual Chlorine (Y/N) _____

pH = 5.46

pH = 5.48

pH = 5.43

pH = 5.77

pH = 5.28

pH = 5.56

State / Location GA

Regulatory Agency _____

Page: 1 **OF** 1

Node Waguespack / Jaiu... DATE signed: 1/21/22

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #:

WO# : 92583955

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 1/25/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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

Don A **Section B** **Section C**

Client Information: Report to: **John Abraham** **Company Name:** **accuanalyst@scientific.com**

Address: **2460 Market Road** **Atlanta, GA 30338**

Phone: **(404) 506-7238** **Fax:** **(404) 506-7238**

Project #: **18033921** **Project Name:** **Plant McDonough AP-2,34 Assessment**

Requested Date: **10 Day TAT** **Price Profile #:**

Regulatory Agency: **GA**

State / Location: **GA**

Page: **1** **Of** **1**

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

MATRIX
 Drinking Water
 Wastewater
 Surface Water
 Groundwater
 Air
 Soil
 Sediment
 Other

CODE
 DW
 WW
 SW
 GW
 A
 S
 SD
 O

SAMPLE ID	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES					ANALYTES TEST	Y/N	RESIDUAL CHLORINE (Y/N)	PH	
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate					Na2S2O3
B-10ND	Drinking Water	DW	1/24/2022	12:56		3						X	X	X	X	6.48
B-10TD	Drinking Water	DW	1/24/2022	8:55		3						X	X	X	X	6.05
B-10BD	Drinking Water	DW	1/24/2022	13:10		3						X	X	X	X	5.89
B-11ID	Drinking Water	DW	1/24/2022	11:58		3						X	X	X	X	7.11

ADDITIONAL COMMENTS	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>M. BH</i>	1-25-22	8:10	<i>M. BH</i>	1-25-22	8:09	
<i>M. BH</i>	1-25-22	9:04	<i>M. BH</i>	1-25-22	8:09	

USE MAGNETIC / *M. BH* DATE SIGNED: 1-25-22

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92583955**

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals intact? Yes No

Date/Initials Person Examining Contents: 11/25/22
LOH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1
USDA Regulated Soil (N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

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

Section B
Required Project Information:

Section C
Invoicing Information:

Page: 1 of 1

Client Name:	Georgia Power - Coal Combustion Residues	Report To:	John A. Britton	Address:	4455 Peachtree Dunwoody Ave.
Site:	2400 Warner Road	Copy To:	Goldie	Company Name:	
City:	Atlanta, GA 30339	Purchase Order #:	Print McDermott AP-2, 24	Project Manager:	Nicole D'Onofrio
Phone:	JohnBritton@power.com	Purchase Order #:		State Location:	GA
Phone:	(404) 508-7238	Project #:	168848021	Regulatory Agency:	
Requested Due Date:	10 Day TAT	Assessment:			

ITEM #	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives								TEMP in C	
					Unpreserved - Ice	HZSO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2SO3	Methanol	Other		
1	B-86	1/25/22	12:14	8	3									
2	B-82	1/25/22	13:43		3									
3	B-1080	1/25/22	14:33		3									
4	EB-5	1/25/22	16:20		3									
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

APPROVAL COMMENTS:	
INVESTIGATOR:	M. Britton
DATE:	1/26/22
TIME:	8:11
ACCEPTED BY:	M. Britton
DATE:	1/26/22
TIME:	8:11
TEMP in C:	
Received on Ice (Y/N):	
Custody Sealed Cooler (Y/N):	
Samples Intact (Y/N):	

John Britton / Spun
DATE Signed: 1/26/22

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name: GA power

Project #: **WO# : 92583955**

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MJ 1/27/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 084 Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: ±0.2
Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (N/A, water sample)

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

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

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	11.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



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

Don A

Section B
 Required Project Information:

Section C
 Invoice Information:

Client Name: Georgia Power - Coal Combustion Residuals	Report To: John Abraham	Address: scshydro@scsuhydro.com
Mail: 2460 Miller Road	Copy To: Golder	Company Name:
Atlanta, GA 30338		
Phone: (404) 596-7299	Project Name: Plant McDonough AP-2,3,4	State / Location: GA
Project # 1007717	Assessment:	
	Project # 10069821	

Page: 1 of 1

Regulatory Agency:
 State / Location: GA

SAMPLE ID	MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST					Residual Chlorine (Y/N)	pH	
					Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K			CO3+HCO2
B-02	WT	1/28/2022	12:03		0	3	5												pH = 4.90
B-03	WT	1/28/2022	10:55		0	3	3												pH = 4.74
B-04	WT	1/28/2022	14:22		0	3	3												pH = 8.82
B-05	WT	1/28/2022	13:21		0	3	3												pH = 8.82
B-101D	WT	1/28/2022	13:50		0	3	3												pH = 5.67
B-06	WT	1/28/2022	15:20		0	3	3												


DATE SIGNED: 1-27-22

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project: **WO# : 92583955**

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: OD 1-29-22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 914 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.9

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Tim _____

WO# : 92583955

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Project Manager SCURF Review: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Requested Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Warner Road Atlanta, GA 30339 Email: jwerner@gpailliance.com Phone: (404) 506-7239 Requested Due Date: 10 Day 1A1	Section B Requested Project Information: Report To: John Abraham Copy To: Golder Purchase Order #: P101020 Project Name: Plant MacDonough AP-2, 3/4 Assessment Project #: 156845621
Section C Invoice Information: Attention: stan.woods@gpailliance.com Company Name: Pace Analytical Address: Pace Project Manager: Nicole O'Keefe Pace Project #: GA	

ITEM #	MATRIX One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	DATE		SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST					Residual Chlorine (Y/N)	pH																
		MA/RBX CODE	SAMPLE TYPE		DATE	TIME	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2B2O3	Methanol	Other	App III/IV Total Metals	Cl, F, SO4, TDS			Radium 226/228	Mg, Na, K	CO3+HCO2													
1	B-56	G	G	1/27/2022	12-40	6	3	3							X	X	X	X	X																
2	B-88	G	G	1/27/2022	13 15	6	3	3							X	X	X	X	X																
3	B-1020	G	G	1/27/2022	16:25	6	3	3							X	X	X	X	X																
4	FB-6	G	G	1/27/2022	14:36	6	3	3							X	X	X	X	X																
5	Dup-8	G	G	1/27/2022	-	6	3	3							X	X	X	X	X																
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			
13																																			
14																																			

RELINQUISHED BY: Jude Ingvespeck / JW DATE: 1/28/22
 AFFILIATION: DP&D DATE: 1/28/22
 ACCEPTED BY: DP&D DATE: 1/28/22

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

March 08, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 28, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM

Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583951001	B-63	Water	01/20/22 11:59	01/21/22 15:32
92583951002	B-77	Water	01/20/22 14:12	01/21/22 15:32
92583951003	B-109D	Water	01/20/22 12:58	01/21/22 15:32
92583951004	B-115D	Water	01/20/22 16:32	01/21/22 15:32
92583951005	B-120D	Water	01/20/22 15:43	01/21/22 15:32
92583951006	EB-2	Water	01/20/22 16:55	01/21/22 15:32
92583951007	B-83	Water	01/21/22 12:02	01/21/22 15:32
92583951008	EB-3	Water	01/21/22 12:45	01/21/22 15:32
92583951009	B-104D	Water	01/24/22 12:56	01/25/22 09:04
92583951010	B-107D	Water	01/24/22 09:55	01/25/22 09:04
92583951011	B-108D	Water	01/24/22 13:10	01/25/22 09:04
92583951012	B-111D	Water	01/24/22 11:56	01/25/22 09:04
92583951013	B-66	Water	01/25/22 12:14	01/26/22 08:51
92583951014	B-82	Water	01/25/22 13:43	01/26/22 08:51
92583951015	B-106D	Water	01/25/22 14:33	01/26/22 08:51
92583951016	EB-5	Water	01/25/22 16:20	01/26/22 08:51
92583951017	B-92	Water	01/26/22 12:03	01/27/22 08:50
92583951018	B-93	Water	01/26/22 10:55	01/27/22 08:50
92583951019	B-97	Water	01/26/22 14:22	01/27/22 08:50
92583951020	B-98	Water	01/26/22 13:21	01/27/22 08:50
92583951021	B-101D	Water	01/26/22 13:50	01/27/22 08:50
92583951022	EB-6	Water	01/26/22 15:20	01/27/22 08:50
92583951023	B-56	Water	01/27/22 12:40	01/28/22 15:32
92583951024	B-88	Water	01/27/22 13:15	01/28/22 15:32
92583951025	B-102D	Water	01/27/22 16:25	01/28/22 15:32
92583951026	FB-6	Water	01/27/22 14:00	01/28/22 15:32
92583951027	DUP-6	Water	01/27/22 00:00	01/28/22 15:32

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583951001	B-63	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951002	B-77	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951003	B-109D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951004	B-115D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951005	B-120D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951006	EB-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951007	B-83	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951008	EB-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951009	B-104D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951010	B-107D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951011	B-108D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951012	B-111D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951013	B-66	EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583951014	B-82	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951015	B-106D	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951016	EB-5	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951017	B-92	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951018	B-93	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951019	B-97	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951020	B-98	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951021	B-101D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951022	EB-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951023	B-56	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92583951024	B-88	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92583951025	B-102D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583951026	FB-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583951027	DUP-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-63 Lab ID: 92583951001 Collected: 01/20/22 11:59 Received: 01/21/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.455 ± 0.231 (0.314) C:93% T:NA	pCi/L	02/16/22 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.391 ± 0.575 (1.24) C:71% T:84%	pCi/L	02/14/22 16:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.846 ± 0.806 (1.55)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-77 **Lab ID: 92583951002** Collected: 01/20/22 14:12 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.553 ± 0.265 (0.385) C:95% T:NA	pCi/L	02/16/22 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.367 ± 0.267 (0.514) C:96% T:80%	pCi/L	02/18/22 11:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.920 ± 0.532 (0.899)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-109D **Lab ID: 92583951003** Collected: 01/20/22 12:58 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	6.82 ± 1.29 (0.432) C:73% T:NA	pCi/L	02/16/22 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	9.40 ± 1.87 (0.667) C:92% T:72%	pCi/L	02/18/22 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	16.2 ± 3.16 (1.10)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-115D **Lab ID: 92583951004** Collected: 01/20/22 16:32 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.68 ± 0.769 (0.318) C:95% T:NA	pCi/L	02/16/22 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	6.18 ± 1.45 (1.07) C:78% T:79%	pCi/L	02/14/22 19:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	9.86 ± 2.22 (1.39)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-120D **Lab ID: 92583951005** Collected: 01/20/22 15:43 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.914 ± 0.343 (0.414) C:88% T:NA	pCi/L	02/16/22 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.300 ± 0.524 (1.14) C:83% T:80%	pCi/L	02/14/22 19:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.21 ± 0.867 (1.55)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: EB-2 **Lab ID: 92583951006** Collected: 01/20/22 16:55 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0209 ± 0.157 (0.399) C:96% T:NA	pCi/L	02/16/22 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.104 ± 0.633 (1.48) C:76% T:84%	pCi/L	02/14/22 20:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0209 ± 0.790 (1.88)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-83 **Lab ID: 92583951007** Collected: 01/21/22 12:02 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0529 ± 0.165 (0.463) C:85% T:NA	pCi/L	02/16/22 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.549 ± 0.528 (1.09) C:76% T:85%	pCi/L	02/14/22 18:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.549 ± 0.693 (1.55)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: EB-3 **Lab ID: 92583951008** Collected: 01/21/22 12:45 Received: 01/21/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00683 ± 0.126 (0.345) C:93% T:NA	pCi/L	02/16/22 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.539 ± 0.581 (1.21) C:68% T:80%	pCi/L	02/14/22 18:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.539 ± 0.707 (1.56)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-104D **Lab ID: 92583951009** Collected: 01/24/22 12:56 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.53 ± 0.733 (0.284) C:88% T:NA	pCi/L	02/16/22 10:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	8.37 ± 1.79 (1.07) C:72% T:83%	pCi/L	02/14/22 17:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	11.9 ± 2.52 (1.35)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-107D **Lab ID: 92583951010** Collected: 01/24/22 09:55 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.446 ± 0.226 (0.322) C:93% T:NA	pCi/L	02/16/22 10:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.691 ± 0.780 (1.64) C:75% T:80%	pCi/L	02/14/22 20:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.14 ± 1.01 (1.96)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-108D **Lab ID: 92583951011** Collected: 01/24/22 13:10 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.812 ± 0.334 (0.467) C:91% T:NA	pCi/L	02/16/22 10:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.262 ± 0.425 (1.05) C:79% T:83%	pCi/L	02/14/22 18:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.812 ± 0.759 (1.52)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-111D **Lab ID: 92583951012** Collected: 01/24/22 11:56 Received: 01/25/22 09:04 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.19 ± 0.677 (0.254) C:90% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.49 ± 0.833 (1.20) C:76% T:87%	pCi/L	02/14/22 18:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	5.68 ± 1.51 (1.45)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-66 **Lab ID: 92583951013** Collected: 01/25/22 12:14 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0327 ± 0.118 (0.343) C:92% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0963 ± 0.480 (1.14) C:77% T:79%	pCi/L	02/14/22 18:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.000 ± 0.598 (1.48)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-82 **Lab ID: 92583951014** Collected: 01/25/22 13:43 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.209 ± 0.169 (0.299) C:93% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.121 ± 0.515 (1.18) C:75% T:83%	pCi/L	02/14/22 20:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.330 ± 0.684 (1.48)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-106D **Lab ID: 92583951015** Collected: 01/25/22 14:33 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0175 ± 0.100 (0.302) C:82% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.454 ± 0.519 (1.08) C:77% T:85%	pCi/L	02/14/22 20:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.454 ± 0.619 (1.38)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: EB-5 **Lab ID: 92583951016** Collected: 01/25/22 16:20 Received: 01/26/22 08:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0917 ± 0.107 (0.207) C:98% T:NA	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.621 (1.13) C:75% T:85%	pCi/L	02/14/22 20:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12 ± 0.728 (1.34)	pCi/L	02/21/22 10:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-92 **Lab ID: 92583951017** Collected: 01/26/22 12:03 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.415 ± 0.205 (0.265) C:94% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.857 ± 0.661 (1.30) C:78% T:81%	pCi/L	02/14/22 20:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 0.866 (1.57)	pCi/L	02/21/22 21:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-93 **Lab ID: 92583951018** Collected: 01/26/22 10:55 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.240 ± 0.167 (0.272) C:98% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.518 ± 0.577 (1.20) C:77% T:82%	pCi/L	02/14/22 20:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.758 ± 0.744 (1.47)	pCi/L	02/21/22 21:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-97 **Lab ID: 92583951019** Collected: 01/26/22 14:22 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.566 ± 0.236 (0.253) C:95% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.899 ± 0.637 (1.23) C:78% T:84%	pCi/L	02/14/22 20:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.47 ± 0.873 (1.48)	pCi/L	02/21/22 21:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-98 Lab ID: 92583951020 Collected: 01/26/22 13:21 Received: 01/27/22 08:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.520 ± 0.234 (0.259) C:86% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-2.35 ± 3.33 (8.44) C:80% T:84%	pCi/L	02/14/22 20:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.520 ± 3.56 (8.70)	pCi/L	02/21/22 21:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-101D **Lab ID: 92583951021** Collected: 01/26/22 13:50 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.422 ± 0.212 (0.267) C:84% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.790 ± 0.409 (0.727) C:90% T:79%	pCi/L	02/15/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.21 ± 0.621 (0.994)	pCi/L	02/21/22 21:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: EB-6 **Lab ID: 92583951022** Collected: 01/26/22 15:20 Received: 01/27/22 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0321 ± 0.116 (0.336) C:95% T:NA	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.597 ± 0.337 (0.607) C:90% T:83%	pCi/L	02/15/22 15:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.597 ± 0.453 (0.943)	pCi/L	02/21/22 21:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-56 Lab ID: 92583951023 Collected: 01/27/22 12:40 Received: 01/28/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.306 ± 0.199 (0.328) C:88% T:NA	pCi/L	02/28/22 09:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.525 ± 0.305 (0.531) C:77% T:85%	pCi/L	03/04/22 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.831 ± 0.504 (0.859)	pCi/L	03/06/22 21:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-88 Lab ID: 92583951024 Collected: 01/27/22 13:15 Received: 01/28/22 15:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.584 ± 0.245 (0.266) C:85% T:NA	pCi/L	02/28/22 09:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.593 ± 0.343 (0.624) C:84% T:86%	pCi/L	03/04/22 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.18 ± 0.588 (0.890)	pCi/L	03/06/22 21:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: B-102D **Lab ID: 92583951025** Collected: 01/27/22 16:25 Received: 01/28/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.142 ± 0.128 (0.232) C:99% T:NA	pCi/L	02/28/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.486 ± 0.367 (0.716) C:77% T:83%	pCi/L	03/04/22 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.628 ± 0.495 (0.948)	pCi/L	03/06/22 21:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: FB-6 **Lab ID: 92583951026** Collected: 01/27/22 14:00 Received: 01/28/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0275 ± 0.0628 (0.219) C:95% T:NA	pCi/L	02/28/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0168 ± 0.303 (0.714) C:78% T:86%	pCi/L	03/04/22 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.366 (0.933)	pCi/L	03/06/22 21:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Sample: DUP-6 **Lab ID: 92583951027** Collected: 01/27/22 00:00 Received: 01/28/22 15:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.301 ± 0.177 (0.268) C:99% T:NA	pCi/L	02/28/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.461 ± 0.370 (0.734) C:75% T:88%	pCi/L	03/04/22 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.762 ± 0.547 (1.00)	pCi/L	03/06/22 21:18	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch: 481463

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015,
92583951016, 92583951017, 92583951018, 92583951019, 92583951020, 92583951021, 92583951022

METHOD BLANK: 2326512

Matrix: Water

Associated Lab Samples: 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015,
92583951016, 92583951017, 92583951018, 92583951019, 92583951020, 92583951021, 92583951022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00174 ± 0.0889 (0.253) C:96% T:NA	pCi/L	02/16/22 10:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch: 482065

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951021, 92583951022

METHOD BLANK: 2330297

Matrix: Water

Associated Lab Samples: 92583951021, 92583951022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.298 ± 0.301 (0.619) C:86% T:84%	pCi/L	02/15/22 15:27	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch:	481462	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008

METHOD BLANK: 2326510 Matrix: Water

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0222 ± 0.102 (0.264) C:95% T:NA	pCi/L	02/16/22 08:33	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch: 485931

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

METHOD BLANK: 2349812

Matrix: Water

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0361 ± 0.104 (0.256) C:89% T:NA	pCi/L	02/28/22 09:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch:	482064	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008, 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015, 92583951016, 92583951017, 92583951018, 92583951019, 92583951020

METHOD BLANK: 2330296 Matrix: Water

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008, 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015, 92583951016, 92583951017, 92583951018, 92583951019, 92583951020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.344 ± 0.287 (0.572) C:91% T:80%	pCi/L	02/18/22 11:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch: 486654

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

METHOD BLANK: 2353485

Matrix: Water

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0646 ± 0.235 (0.535) C:84% T:93%	pCi/L	03/04/22 10:45	

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QUALIFIERS

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583951001	B-63	EPA 9315	481462		
92583951002	B-77	EPA 9315	481462		
92583951003	B-109D	EPA 9315	481462		
92583951004	B-115D	EPA 9315	481462		
92583951005	B-120D	EPA 9315	481462		
92583951006	EB-2	EPA 9315	481462		
92583951007	B-83	EPA 9315	481462		
92583951008	EB-3	EPA 9315	481462		
92583951009	B-104D	EPA 9315	481463		
92583951010	B-107D	EPA 9315	481463		
92583951011	B-108D	EPA 9315	481463		
92583951012	B-111D	EPA 9315	481463		
92583951013	B-66	EPA 9315	481463		
92583951014	B-82	EPA 9315	481463		
92583951015	B-106D	EPA 9315	481463		
92583951016	EB-5	EPA 9315	481463		
92583951017	B-92	EPA 9315	481463		
92583951018	B-93	EPA 9315	481463		
92583951019	B-97	EPA 9315	481463		
92583951020	B-98	EPA 9315	481463		
92583951021	B-101D	EPA 9315	481463		
92583951022	EB-6	EPA 9315	481463		
92583951023	B-56	EPA 9315	485931		
92583951024	B-88	EPA 9315	485931		
92583951025	B-102D	EPA 9315	485931		
92583951026	FB-6	EPA 9315	485931		
92583951027	DUP-6	EPA 9315	485931		
92583951001	B-63	EPA 9320	482064		
92583951002	B-77	EPA 9320	482064		
92583951003	B-109D	EPA 9320	482064		
92583951004	B-115D	EPA 9320	482064		
92583951005	B-120D	EPA 9320	482064		
92583951006	EB-2	EPA 9320	482064		
92583951007	B-83	EPA 9320	482064		
92583951008	EB-3	EPA 9320	482064		
92583951009	B-104D	EPA 9320	482064		
92583951010	B-107D	EPA 9320	482064		
92583951011	B-108D	EPA 9320	482064		
92583951012	B-111D	EPA 9320	482064		
92583951013	B-66	EPA 9320	482064		
92583951014	B-82	EPA 9320	482064		
92583951015	B-106D	EPA 9320	482064		
92583951016	EB-5	EPA 9320	482064		
92583951017	B-92	EPA 9320	482064		
92583951018	B-93	EPA 9320	482064		
92583951019	B-97	EPA 9320	482064		
92583951020	B-98	EPA 9320	482064		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD
Pace Project No.: 92583951

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583951021	B-101D	EPA 9320	482065		
92583951022	EB-6	EPA 9320	482065		
92583951023	B-56	EPA 9320	486654		
92583951024	B-88	EPA 9320	486654		
92583951025	B-102D	EPA 9320	486654		
92583951026	FB-6	EPA 9320	486654		
92583951027	DUP-6	EPA 9320	486654		
92583951001	B-63	Total Radium Calculation	485105		
92583951002	B-77	Total Radium Calculation	485105		
92583951003	B-109D	Total Radium Calculation	485105		
92583951004	B-115D	Total Radium Calculation	485105		
92583951005	B-120D	Total Radium Calculation	485105		
92583951006	EB-2	Total Radium Calculation	485105		
92583951007	B-83	Total Radium Calculation	485105		
92583951008	EB-3	Total Radium Calculation	485105		
92583951009	B-104D	Total Radium Calculation	485105		
92583951010	B-107D	Total Radium Calculation	485105		
92583951011	B-108D	Total Radium Calculation	485105		
92583951012	B-111D	Total Radium Calculation	485105		
92583951013	B-66	Total Radium Calculation	485105		
92583951014	B-82	Total Radium Calculation	485105		
92583951015	B-106D	Total Radium Calculation	485105		
92583951016	EB-5	Total Radium Calculation	485105		
92583951017	B-92	Total Radium Calculation	485426		
92583951018	B-93	Total Radium Calculation	485426		
92583951019	B-97	Total Radium Calculation	485426		
92583951020	B-98	Total Radium Calculation	485426		
92583951021	B-101D	Total Radium Calculation	485426		
92583951022	EB-6	Total Radium Calculation	485426		
92583951023	B-56	Total Radium Calculation	488351		
92583951024	B-88	Total Radium Calculation	488351		
92583951025	B-102D	Total Radium Calculation	488351		
92583951026	FB-6	Total Radium Calculation	488351		
92583951027	DUP-6	Total Radium Calculation	488351		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO# : 92583955



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 1/21/22*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) ± 0.2

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Requested Client Information: Georgia Power - Coal Combustion Residuals
 2460 Marner Road
 Atlanta, GA 30339
 Phone: (404) 506-7233
 Fax: (404) 506-7233
 Requested Due Date: 10 Day TAT

Section B Required Project Information: Report To: Jani Abraham
 Copy To: Golder
 Project Name: Plant McDonough AP-2, 3&4 Assessment
 Project #: 66524821

Section C Invoice Information: Attention: esthela@gsa.com
 Company Name: GSA
 Address: 1100 North 17th Street, NW
 Atlanta, GA 30334
 Project Manager: Nicole D'Onofrio
 Phone: 770.400.8000
 Regulatory Agency: State / Location: GA

Section D Analytical Test Results: Requested Analysis: Filtrated (Y/N)
 Residual Chlorine (Y/N)
 pH = 5.46
 pH = 5.48
 pH = 5.43
 pH = 5.77
 pH = 5.28
 pH = 5.56

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test					Residual Chlorine (Y/N)	pH		
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Asp	BBV Total Metals	Cl, F, SO4, TDS			Radium 226/228	Mg, Na, K
1	B-63	G	1/20/2022	11:59		3									X	X	X	X	X		pH = 5.46
2	B-77	G	1/20/2022	14:12		5									X	X	X	X	X		pH = 5.48
3	B-109D	G	1/20/2022	12:58		3									X	X	X	X	X		pH = 5.43
4	B-115D	G	1/20/2022	16:32		3									X	X	X	X	X		pH = 5.77
5	B-120D	G	1/20/2022	15:43		3									X	X	X	X	X		pH = 5.28
6	EB-2	G	1/20/2022	16:55		3									X	X	X	X	X		pH = 5.56
7	B-83	G	1/21/2022	12:02		3									X	X	X	X	X		
8	EB-3	G	1/21/2022	12:45		3									X	X	X	X	X		
9																					
10																					
11																					
12																					
13																					
14																					

Requested by / Verification: *Janet Sample* / *1/21/22 15:32*
 Accepted by / Verification: *Janet Sample* / *1/21/22 15:32*

State / Location: *GA*
 Date signed: *1/21/22*

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #:

WO# : 92583955

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 1/25/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
Year: Georgia Power - Coal Combustion Residues
Address: 2450 Maun Road
City: Atlanta, GA 30338
Phone: (404) 598-7238
Fax: 10 Day FAX

Section B

Requested Project Information:
Report To: Jodi Abraham
Copy To: Golder
Purchase Order #: Plant McDonough AP 2.34
Project Name: Assessment
Project #: 19034921

Section C

Invoice Information:
Attention: acctproc@scientia.com
Company Name:
Address:
Price Quote:
Price Project Manager: Nicole D'Ono
Price Profile #:

Regulatory Agency:
State / Location: GA
Requested Analysis Method (1903):

Page: 1 of 1

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

MATRIX: Drinking Water, Wastewater, Industrial Wastewater, Surface Water, Air, Other, Tissue
CODE: DW, WW, IWW, SW, SI, DW, WP, AS, OT, TS

SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION		PRESERVATIVES							ANALYSES TEST	Y/N	Residual Chlorine (Y/N)				
							# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other				App I/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K
B-10ND	DW	DW	G	G	1/24/2022	12:56	6	3													pH = 6.49	
B-10TD	DW	DW	G	G	1/24/2022	6:55	6	3														pH = 6.03
B-10BD	DW	DW	G	G	1/24/2022	13:10	6	3														pH = 5.89
B-11ID	DW	DW	G	G	1/24/2022	11:58	6	3														pH = 7.11

ADDITIONAL COMMENTS	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
See sample	1-25-22	08:10	M. BAH	1-25-22	8:09	
M. BAH	1-25-22	9:04	M. BAH	1-25-22	08:04	

USE MAGNETIC / See MAGNETIC / Date signed: 1-25-22

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92583955**

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

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals intact? Yes No

Date/Initials Person Examining Contents: 1/25/22
LOH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) +0.1
3.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): _____
USDA Regulated Soil (N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name: GA power

Project #: **WO# : 92583955**

PM: NMG Due Date: 02/04/22
CLIENT: GA-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MJ 1/27/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 084 Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: ±0.2
Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Don A
 Section B
 Required Project Information:

Client Information:
 Name: Georgia Power - Coal Combustion Residuals
 Address: 2480 Miller Road
 Atlanta, GA 30338
 Email: jlabraham@scdnc.com
 Phone: (404) 596-7293
 Fax: [Blank]
 Project Name: Plant McDonough AP-2,3,4
 Project #: 10669821
 Assessor: [Blank]

Section C
 Invoice Information:

Address: scdnc@scdnc.com
 Company Name: [Blank]
 Address: [Blank]
 State/Location: [Blank]
 Regulatory Agency: [Blank]
 State/Location: GA

Page: 1 of 1

SAMPLE ID
 One character per box.
 (A-Z, 0-9, -)
 Sample IDs must be unique

MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST					RESIDUAL CHLORINE (Y/N)
				Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	
B-02	1/26/2022	12:03		0	3	5										
B-03	1/26/2022	10:55		0	3	3										
B-04	1/26/2022	14:22		0	3	3										
B-05	1/26/2022	13:21		0	3	3										
B-101D	1/26/2022	13:50		0	3	3										
B-06	1/26/2022	15:20		0	3	3										

ADDITIONAL COMMENTS: [Blank]


DATE SIGNED: 1-27-22

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project:

WO# : 92583955

PM: NMG

Due Date: 02/04/22

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: OD 1-29-22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 914 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

WO# : 92583955

PM: NMG

Due Date: 02/04/22

CLIENT: GA-GA Power

Person contacted: _____ Date/Tim _____

Project Manager SCURF Review: _____

Project Manager SRF Review: _____

Date: _____



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

Page: 1 of 1

Section A

Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Warner Road
 Atlanta, GA 30339
 Email: jaramenog@powergen.com
 Phone: (404) 506-7239
 Requested Due Date: 10 Day TAT

Section B

Requested Project Information:
 Report To: John Alsham
 Copy To: Golder
 Project Name: Plant MacDonough AP-2, 3/4 Assessment
 Project #: 166846621

Section C

Invoice Information:
 Attention: scanovic@passtech.com
 Company Name:
 Address:
 State: Project Manager: Nicole O'Keefe
 Pass Profile #:
 Regulatory Agency:
 State / Location: GA

ITEM #	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST					Residual Chlorine (Y/N)	pH		
						Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2B2O3	Methanol	Other	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K			CO3+HCO2	
1	B-56	G	1/27/2022	12:40										X	X	X	X	X			
2	B-88	G	1/27/2022	13:15										X	X	X	X	X			
3	B-1020	G	1/27/2022	16:25										X	X	X	X	X			
4	FB-6	G	1/27/2022	14:36										X	X	X	X	X			
5	Dup-8	G	1/27/2022											X	X	X	X	X			

RELINQUISHED BY: Jm Sample
 DATE: 1/28/22
 TIME: 15:32

ACCEPTED BY: JOC
 DATE: 1/28/22
 TIME: 15:38

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

Jude Ingvesperk / Jm ...
 DATE Signed: 1/28/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/10/2022
Worklist: 64949
Matrix: WT

Method Blank Assessment	
MB Sample ID	2330297
MB concentration:	0.298
MB 2 Sigma CSU:	0.301
MB MDC:	0.619
MB Numerical Performance Indicator:	Pass
MB Status vs. Numerical Indicator:	1.94
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS#	Y or N?	Y
Count Date:	2/15/2022	LCS#64949		
Spike I.D.:	21-029	LCS#64949		
Decay Corrected Spike Concentration (pCi/mL):	36.329			
Volume Used (mL):	0.10			
Aliquot Volume (L, g, F):	0.807			
Target Conc. (pCi/L, g, F):	4.500			
Uncertainty (Calculated):	0.220			
Result (pCi/L, g, F):	3.350			
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.778			
Numerical Performance Indicator:	-2.79			
Percent Recovery:	74.46%			
Status vs Numerical Indicator:	N/A			
Status vs Recovery:	Pass			
Upper % Recovery Limits:	135%			
Lower % Recovery Limits:	60%			

Duplicate Sample Assessment	
Sample I.D.:	LCS64949
Duplicate Sample I.D.:	LCS#64949
Sample Result (pCi/L, g, F):	3.350
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.778
Sample Duplicate Result (pCi/L, g, F):	3.636
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.835
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.490
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.75%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

OK 2/17/22

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Result:			
Sample Matrix Spike Duplicate Result:			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result:	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: JC2
 Date: 2/10/2022
 Worklist: 64948
 Matrix: W/1

Method Blank Assessment	
MB Sample ID	2330296
MB Concentration:	-0.930
MB 2 Sigma CSU:	0.198
MB MDC:	0.649
MB Numerical Performance Indicator:	-9.21
MB Status vs Numerical Indicator:	Fail*
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSID (Y or N)?	Y
Count Date:	2/14/2022	LCS64948	2/14/2022
Spike I.D.:	21-029	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.338	36.338	36.338
Volume Used (mL):	0.10	0.10	0.10
Alliquot Volume (L, g, F):	0.811	0.808	0.808
Target Conc. (pCi/L, g, F):	4.482	4.500	4.500
Uncertainty (Calculated):	0.220	0.220	0.220
Result (pCi/L, g, F):	3.440	3.309	3.309
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.987	0.951	0.951
Numerical Performance Indicator:	-2.02	-2.39	-2.39
Percent Recovery:	76.77%	73.55%	73.55%
Status vs Numerical Indicator:	N/A	N/A	N/A
Status vs Recovery:	Pass	Pass	Pass
Upper % Recovery Limits:	135%	135%	135%
Lower % Recovery Limits:	60%	60%	60%

Duplicate Sample Assessment		Sample I.D.	Y
Duplicate Sample I.D.:	LCS64948	LCS64948	2/14/2022
Sample Result (pCi/L, g, F):	3.440	3.440	3.440
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.987	0.987	0.987
Sample Duplicate Result (pCi/L, g, F):	3.309	3.309	3.309
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.951	0.951	0.951
Are sample and/or duplicate results below RL?	NO	NO	NO
Duplicate Numerical Performance Indicator:	0.188	0.188	0.188
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.28%	4.28%	4.28%
Duplicate Status vs Numerical Indicator:	Pass	Pass	Pass
Duplicate Status vs RPD:	Pass	Pass	Pass
% RPD Limit:	36%	36%	36%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Alliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Alliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MSD Spike Uncertainty (calculated):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		Sample I.D.	Y
Sample I.D.:	LCS64948	LCS64948	2/14/2022
Sample MS I.D.:			
Sample MSD I.D.:			
Sample Matrix Spike Result:			
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):			
Duplicate Numerical Performance Indicator:			
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:			
MS/MSD Duplicate Status vs Numerical Indicator:			
MS/MSD Duplicate Status vs RPD:			
% RPD Limit:			

Comments: **the lowest activity sample in this batch is greater than 1 times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.** *W3 < MDC, Pass* *DU 3/2/22*

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 2/16/2022
Worklist: 64948
Matrix: WI

Method Blank Assessment

MB Sample ID: 2330296
MB concentration: 0.344
MB 2 Sigma CSU: 0.287
MB MDC: 0.572
MB Numerical Performance Indicator: 2.35
MB Status vs Numerical Indicator: Warning
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS64948	LCS064948
Count Date:	#/N/A	#/N/A
Spike I.D.:	#/N/A	#/N/A
Decay Corrected Spike Concentration (pCi/mL):	#/N/A	#/N/A
Volume Used (mL):	#/N/A	#/N/A
Aliquot Volume (L, g, F):	#/N/A	#/N/A
Target Conc. (pCi/L, g, F):	#/N/A	#/N/A
Uncertainty (Calculated):	#/N/A	#/N/A
Result (pCi/L, g, F):	#/N/A	#/N/A
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	#/N/A	#/N/A
Numerical Performance Indicator:	#/N/A	#/N/A
Percent Recovery:	#/N/A	#/N/A
Status vs Numerical Indicator:	#/N/A	#/N/A
Status vs Recovery:	#/N/A	#/N/A
Upper % Recovery Limits:	#/N/A	#/N/A
Lower % Recovery Limits:	#/N/A	#/N/A

Sample Matrix Spike Control Assessment	MISMSD 1	MISMSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MISMSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MISMSD Upper % Recovery Limits:</p> <p>MISMSD Lower % Recovery Limits:</p>		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
<p>Sample I.D.:</p> <p>Duplicate Sample I.D.:</p> <p>Sample Result (pCi/L, g, F):</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Duplicate Result (pCi/L, g, F):</p> <p>Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Are sample and/or duplicate results below RL?</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate RPD:</p> <p>Duplicate Status vs Numerical Indicator:</p> <p>Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>	<p>See Below ##</p>

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: #N/A
Mz/19/22
MB reanalyzed due to not counting initially
MM20220217

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/13/2022
Worklist: 64894
Matrix: DW

Method Blank Assessment	
MB Sample ID	2326512
MB concentration:	0.002
MB Counting Uncertainty:	0.089
MB MDC:	0.253
MB Numerical Performance Indicator:	0.04
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS64894	LCS64894
Count Date:	2/16/2022	2/16/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.030	24.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.512	0.508
Target Conc. (pCi/L, g, F):	4.690	4.732
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	4.731	5.146
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.601	0.615
Numerical Performance Indicator:	0.13	1.31
Percent Recovery:	100.88%	108.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92583952001
Duplicate Sample I.D.:	92583952001DUP
Sample Result (pCi/L, g, F):	0.869
Sample Duplicate Result (pCi/L, g, F):	0.601
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	5.146
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.615
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.947
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.51%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten: 2/17/22
LAM 2/17/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/13/2022
Worklist: 64893
Matrix: DW



Method Blank Assessment	
MB Sample ID	2326510
MB Concentration:	0.022
M/B Counting Uncertainty:	0.102
MB MDC:	0.264
MB Numerical Performance Indicator:	0.43
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS64893	LCS64893
Count Date:	2/17/2022	2/17/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.030	24.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.511
Target Conc. (pCi/L, g, F):	4.731	4.705
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	5.318	4.917
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.657	0.599
Numerical Performance Indicator:	1.75	0.69
Percent Recovery:	112.42%	104.51%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS64893	LCS64893
Sample I.D.:	92583950001	92583950001
Duplicate Sample I.D.:	92583950001	92583950001
Sample Result (pCi/L, g, F):	0.508	0.508
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.218	0.218
Sample Duplicate Result (pCi/L, g, F):	0.298	0.298
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.194	0.194
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	1.415	1.415
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	52.26%	52.26%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment	MS/MSD	
	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD	
	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepared due to unacceptable precision N/A

JAM 2/17/22

CWW 2/17/22

JAM 2/17/22

February 02, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Dear Joju Abraham:

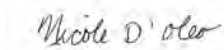
Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.

Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Pace Analytical Services Peachtree Corners
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583585001	B-116D	Water	01/19/22 16:13	01/20/22 08:45
92583585002	B-117D	Water	01/19/22 12:20	01/20/22 08:45
92583585003	B-118	Water	01/19/22 13:44	01/20/22 08:45
92583585004	B-119D	Water	01/19/22 11:42	01/20/22 08:45
92583585005	EB-1	Water	01/19/22 13:25	01/20/22 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583585001	B-116D	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585002	B-117D	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585003	B-118	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585004	B-119D	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585005	EB-1	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Sample: B-116D		Lab ID: 92583585001		Collected: 01/19/22 16:13		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 13:45		
pH	6.04	Std. Units			1		01/20/22 13:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.5	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 14:55	7440-09-7	
Sodium	8.2	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 14:55	7440-23-5	
Calcium	10.7	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 14:55	7440-70-2	
Magnesium	3.8	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 14:55	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:51	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 18:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 18:51	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 18:51	7439-92-1	
Lithium	0.0061J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 18:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	93.0	mg/L	10.0	10.0	1		01/25/22 16:18		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	51.0	mg/L	5.0	1.8	1		01/26/22 16:18		
Alkalinity,Bicarbonate (CaCO ₃)	51.0	mg/L	5.0	1.8	1		01/26/22 16:18		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 16:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.6	mg/L	1.0	0.60	1		01/21/22 16:14	16887-00-6	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-116D **Lab ID: 92583585001** Collected: 01/19/22 16:13 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 16:14	16984-48-8	
Sulfate	0.73J	mg/L	1.0	0.50	1		01/21/22 16:14	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Sample: B-117D	Lab ID: 92583585002	Collected: 01/19/22 12:20	Received: 01/20/22 08:45	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 13:45		
pH	6.02	Std. Units			1		01/20/22 13:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.6	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:14	7440-09-7	
Sodium	17.8	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:14	7440-23-5	
Calcium	9.7	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:14	7440-70-2	
Magnesium	1.5	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:14	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:57	7440-38-2	
Barium	0.047	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 18:57	7439-92-1	
Lithium	0.0085J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 18:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	129	mg/L	10.0	10.0	1		01/25/22 16:18		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	40.3	mg/L	5.0	1.8	1		01/26/22 16:37		
Alkalinity, Bicarbonate (CaCO ₃)	40.3	mg/L	5.0	1.8	1		01/26/22 16:37		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 16:37		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.0	mg/L	1.0	0.60	1		01/21/22 16:55	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-117D **Lab ID: 92583585002** Collected: 01/19/22 12:20 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.058J	mg/L	0.10	0.050	1		01/21/22 16:55	16984-48-8	
Sulfate	21.5	mg/L	1.0	0.50	1		01/21/22 16:55	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Sample: B-118		Lab ID: 92583585003		Collected: 01/19/22 13:44		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 13:45		
pH	6.01	Std. Units			1		01/20/22 13:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.3	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:18	7440-09-7	
Sodium	9.0	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:18	7440-23-5	
Calcium	5.1	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:18	7440-70-2	
Magnesium	2.1	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:18	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0020J	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:20	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 19:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 19:20	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 19:20	7439-92-1	
Lithium	0.0027J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 19:20	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 19:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		01/25/22 16:18		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	36.7	mg/L	5.0	1.8	1		01/26/22 16:42		
Alkalinity,Bicarbonate (CaCO ₃)	36.7	mg/L	5.0	1.8	1		01/26/22 16:42		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 16:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.8	mg/L	1.0	0.60	1		01/21/22 17:09	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-118 **Lab ID: 92583585003** Collected: 01/19/22 13:44 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 17:09	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		01/21/22 17:09	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Sample: B-119D	Lab ID: 92583585004	Collected: 01/19/22 11:42	Received: 01/20/22 08:45	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 13:45		
pH	6.61	Std. Units			1		01/20/22 13:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.3	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:33	7440-09-7	
Sodium	24.8	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:33	7440-23-5	
Calcium	16.1	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:33	7440-70-2	
Magnesium	4.0	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:33	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:26	7440-38-2	
Barium	0.0047J	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 19:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 19:26	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 19:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 19:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:26	7440-47-3	
Cobalt	0.00066J	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 19:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 19:26	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 19:26	7439-93-2	
Molybdenum	0.020	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 19:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 19:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 19:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	145	mg/L	10.0	10.0	1		01/25/22 16:19		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO ₃	66.2	mg/L	5.0	1.8	1		01/26/22 16:47		
Alkalinity,Bicarbonate (CaCO ₃)	66.2	mg/L	5.0	1.8	1		01/26/22 16:47		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1.8	1		01/26/22 16:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.8	mg/L	1.0	0.60	1		01/21/22 17:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-119D **Lab ID: 92583585004** Collected: 01/19/22 11:42 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.099J	mg/L	0.10	0.050	1		01/21/22 17:23	16984-48-8	
Sulfate	31.1	mg/L	1.0	0.50	1		01/21/22 17:23	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

Sample: EB-1 **Lab ID: 92583585005** Collected: 01/19/22 13:25 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:38	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:38	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:38	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:38	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/22 09:47	02/01/22 13:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 13:46	7440-38-2	
Barium	0.00070J	mg/L	0.0050	0.00067	1	02/01/22 09:47	02/01/22 13:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/22 09:47	02/01/22 13:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/01/22 09:47	02/01/22 13:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/22 09:47	02/01/22 13:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 13:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/22 09:47	02/01/22 13:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/22 09:47	02/01/22 13:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/22 09:47	02/01/22 13:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/22 09:47	02/01/22 13:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/22 09:47	02/01/22 13:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/22 09:47	02/01/22 13:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/25/22 16:19		
2320B Alkalinity									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 17:15		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 17:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 17:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/21/22 18:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 18:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/21/22 18:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch:	673587	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3525717 Matrix: Water

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 14:07	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 14:07	
Potassium	mg/L	ND	0.20	0.15	01/25/22 14:07	
Sodium	mg/L	ND	1.0	0.58	01/25/22 14:07	

LABORATORY CONTROL SAMPLE: 3525718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525719 3525720

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.7	1	1	11.9	11.8	118	113	75-125	0	20
Magnesium	mg/L	3.8	1	1	4.9	4.9	108	109	75-125	0	20
Potassium	mg/L	2.5	1	1	3.6	3.7	111	114	75-125	1	20
Sodium	mg/L	8.2	1	1	9.1	9.3	91	106	75-125	2	20

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

QC Batch: 673617 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004

METHOD BLANK: 3525846 Matrix: Water
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/25/22 18:39	
Arsenic	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Barium	mg/L	ND	0.0050	0.00067	01/25/22 18:39	
Beryllium	mg/L	ND	0.00050	0.000054	01/25/22 18:39	
Boron	mg/L	ND	0.040	0.0086	01/25/22 18:39	
Cadmium	mg/L	ND	0.00050	0.00011	01/25/22 18:39	
Chromium	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Cobalt	mg/L	ND	0.0050	0.00039	01/25/22 18:39	
Lead	mg/L	ND	0.0010	0.00089	01/25/22 18:39	
Lithium	mg/L	ND	0.030	0.00073	01/25/22 18:39	
Molybdenum	mg/L	ND	0.010	0.00074	01/25/22 18:39	
Selenium	mg/L	ND	0.0050	0.0014	01/25/22 18:39	
Thallium	mg/L	ND	0.0010	0.00018	01/25/22 18:39	

LABORATORY CONTROL SAMPLE: 3525847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525848 3525849

Parameter	Units	92583585002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	108	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Parameter	Units	3525848		3525849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	102	107	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.092	98	92	75-125	6	20		
Boron	mg/L	ND	1	1	0.99	0.91	99	90	75-125	9	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0085J	0.1	0.1	0.11	0.10	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

QC Batch: 675122 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585005

METHOD BLANK: 3533656 Matrix: Water
Associated Lab Samples: 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/01/22 13:34	
Arsenic	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Barium	mg/L	ND	0.0050	0.00067	02/01/22 13:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/01/22 13:34	
Boron	mg/L	ND	0.040	0.0086	02/01/22 13:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/01/22 13:34	
Chromium	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/01/22 13:34	
Lead	mg/L	ND	0.0010	0.00089	02/01/22 13:34	
Lithium	mg/L	ND	0.030	0.00073	02/01/22 13:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/01/22 13:34	
Selenium	mg/L	ND	0.0050	0.0014	02/01/22 13:34	
Thallium	mg/L	ND	0.0010	0.00018	02/01/22 13:34	

LABORATORY CONTROL SAMPLE: 3533657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	115	80-120	
Cadmium	mg/L	0.1	0.11	106	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533658 3533659

Parameter	Units	92585102002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	101	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Parameter	Units	3533658		3533659		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92585102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	23.1 ug/L	0.1	0.1	0.13	0.13	107	105	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Boron	mg/L	ND	1	1	1.1	1.1	113	109	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Chromium	mg/L	47.0 ug/L	0.1	0.1	0.15	0.16	107	112	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	105	109	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch:	673997	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3527642 Matrix: Water
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	01/27/22 10:01	

LABORATORY CONTROL SAMPLE: 3527643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527644 3527645

Parameter	Units	3527644		3527645		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0023	0.0022	92	89	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch:	673706	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3526393 Matrix: Water
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/25/22 16:16	

LABORATORY CONTROL SAMPLE: 3526394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3526395

Parameter	Units	92583263001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	308	310	1	25	

SAMPLE DUPLICATE: 3526396

Parameter	Units	92583585002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	129	123	5	25	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

QC Batch: 795578 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 4230575 Matrix: Water
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	1.8	01/26/22 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 4230576 4230577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	42.1	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230578 4230579

Parameter	Units	10595480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	21.7	40	40	61.1	59.0	99	93	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230580 4230581

Parameter	Units	92583585001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	51.0	40	40	91.2	91.1	100	100	80-120	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92583585

QC Batch: 673020 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3522860 Matrix: Water
Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/21/22 12:31	
Fluoride	mg/L	ND	0.10	0.050	01/21/22 12:31	
Sulfate	mg/L	ND	1.0	0.50	01/21/22 12:31	

LABORATORY CONTROL SAMPLE: 3522861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522862 3522863

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583627001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.0	50	50	50	60.6	61.4	111	113	90-110	1	10 M1	
Fluoride	mg/L	0.063J	2.5	2.5	2.5	2.6	2.7	102	104	90-110	2	10	
Sulfate	mg/L	5.0	50	50	50	60.3	61.5	111	113	90-110	2	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522864 3522865

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.6	50	50	50	58.3	58.5	111	112	90-110	0	10 M1	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	2.7	105	107	90-110	2	10	
Sulfate	mg/L	0.73J	50	50	50	55.9	56.1	110	111	90-110	0	10 M1	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583585001	B-116D				
92583585002	B-117D				
92583585003	B-118				
92583585004	B-119D				
92583585001	B-116D	EPA 3010A	673587	EPA 6010D	673656
92583585002	B-117D	EPA 3010A	673587	EPA 6010D	673656
92583585003	B-118	EPA 3010A	673587	EPA 6010D	673656
92583585004	B-119D	EPA 3010A	673587	EPA 6010D	673656
92583585005	EB-1	EPA 3010A	673587	EPA 6010D	673656
92583585001	B-116D	EPA 3005A	673617	EPA 6020B	673660
92583585002	B-117D	EPA 3005A	673617	EPA 6020B	673660
92583585003	B-118	EPA 3005A	673617	EPA 6020B	673660
92583585004	B-119D	EPA 3005A	673617	EPA 6020B	673660
92583585005	EB-1	EPA 3005A	675122	EPA 6020B	675233
92583585001	B-116D	EPA 7470A	673997	EPA 7470A	674181
92583585002	B-117D	EPA 7470A	673997	EPA 7470A	674181
92583585003	B-118	EPA 7470A	673997	EPA 7470A	674181
92583585004	B-119D	EPA 7470A	673997	EPA 7470A	674181
92583585005	EB-1	EPA 7470A	673997	EPA 7470A	674181
92583585001	B-116D	SM 2540C-2015	673706		
92583585002	B-117D	SM 2540C-2015	673706		
92583585003	B-118	SM 2540C-2015	673706		
92583585004	B-119D	SM 2540C-2015	673706		
92583585005	EB-1	SM 2540C-2015	673706		
92583585001	B-116D	SM 2320B	795578		
92583585002	B-117D	SM 2320B	795578		
92583585003	B-118	SM 2320B	795578		
92583585004	B-119D	SM 2320B	795578		
92583585005	EB-1	SM 2320B	795578		
92583585001	B-116D	EPA 300.0 Rev 2.1 1993	673020		
92583585002	B-117D	EPA 300.0 Rev 2.1 1993	673020		
92583585003	B-118	EPA 300.0 Rev 2.1 1993	673020		
92583585004	B-119D	EPA 300.0 Rev 2.1 1993	673020		
92583585005	EB-1	EPA 300.0 Rev 2.1 1993	673020		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: _____ Client Name: GA Power CCR Project #: _____

WO# : 92583585



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/20/23
CR

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: Wet Blue None

Biological Tissue Frozen?
 Yes No N/A

CO2 Gun ID: 214 Type of Ice: _____
 Cooler Temp: 5.6/20/33 Correction Factor: 40.1
4.4 Add/Subtract (°C)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.7/2.1/3.4/4.5
 USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021

Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

W0# : 92583585

PM: NMG

Due Date: 02/03/22

CLIENT: GA-GA Power

Exceptions: VOA, Conform, TOC, Oil and Grease, DRO/8015 (water) DOC, LCRG

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	VJGK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
2		2	1																											
3		2	1																											
4		2	1																											
5		2	1																											
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

ecshydrox

Section A Client Information: **Georgia Power - Coal Combustion Residuals**
 Report To: **Johi Abraham**
 Copy To: **Golder**
 Address: **ecshydrox@gepower.com**
 Project Name: **Plant MacDonough Supplemental Sampling Network**
 Project # **10694921**

Section B Requested Project Information:
 Section C Invoice Information:
 Attention: **ecshydrox@gepower.com**
 Company Name:
 Project Manager: **Nicole D'Olivo**
 Project # **10694921**
 Project Name: **Plant MacDonough Supplemental Sampling Network**
 Project # **10694921**

Section D Regulatory Agency:
 State / Location: **GA**

Section E Additional Comments:
 Relinquished by / Application: **SP.../SAMPLE 1/20/22 8:05**
 Date: **1/20/22**
 Time: **8:05**
 Accepted by / Application: **[Signature]**
 Date: **1/30/22**
 Time: **8:05**

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	PRESERVATIVES							ANALYSES TEST	Y/N	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
					# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3							Methanol
B-118D	G	G	1/19/2022	16:13	6	3	3						X	X	X	X	X	pH = 8.04
B-117D	G	G	1/19/2022	12:20	6	3	3						X	X	X	X	X	pH = 8.02
B-118	G	G	1/19/2022	13:44	8	3	5						X	X	X	X	X	pH = 8.01
B-119D	G	G	1/19/2022	11:42	6	3	3						X	X	X	X	X	pH = 8.81
EB-1	G	G	1/19/2022	13:25	6	3	3						X	X	X	X	X	

JUDE WAGERSPACK / SP... DATE SIGNED: 1/20/22

February 08, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92584718

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM

Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92584718001	B-90	Water	01/26/22 11:01	01/27/22 08:50
92584718002	B-91	Water	01/26/22 12:00	01/27/22 08:50
92584718003	B-95	Water	01/26/22 13:03	01/27/22 08:50
92584718004	B-96	Water	01/26/22 13:57	01/27/22 08:50
92584718005	B-99	Water	01/26/22 16:36	01/27/22 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92584718001	B-90	EPA 6020B	CW1	1
92584718002	B-91	EPA 6020B	CW1	1
92584718003	B-95	EPA 6020B	CW1	1
92584718004	B-96	EPA 6020B	CW1	1
92584718005	B-99	EPA 6020B	CW1	1

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-90		Lab ID: 92584718001		Collected: 01/26/22 11:01	Received: 01/27/22 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:08		
pH	5.45	Std. Units			1		01/27/22 10:08		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	3.2	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:55	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: B-91									
Lab ID: 92584718002									
Collected: 01/26/22 12:00 Received: 01/27/22 08:50 Matrix: Water									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:08		
pH	5.29	Std. Units			1		01/27/22 10:08		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	3.6	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:01	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-95		Lab ID: 92584718003		Collected: 01/26/22 13:03		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:08		
pH	5.33	Std. Units			1		01/27/22 10:08		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	2.0	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:07	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-96		Lab ID: 92584718004		Collected: 01/26/22 13:57	Received: 01/27/22 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:08		
pH	5.01	Std. Units			1		01/27/22 10:08		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	3.7	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:13	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-99		Lab ID: 92584718005		Collected: 01/26/22 16:36		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/27/22 10:09		
pH	5.67	Std. Units			1		01/27/22 10:09		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	2.7	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:19	7440-42-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL
Pace Project No.: 92584718

QC Batch: 675834 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584718001, 92584718002, 92584718003, 92584718004, 92584718005

METHOD BLANK: 3537236 Matrix: Water
Associated Lab Samples: 92584718001, 92584718002, 92584718003, 92584718004, 92584718005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	02/03/22 20:25	

LABORATORY CONTROL SAMPLE: 3537237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239

Parameter	Units	92583953026		3537239		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	0.69	1	1	1.7	1.7	96	102	75-125	4	20

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

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QUALIFIERS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92584718001	B-90				
92584718002	B-91				
92584718003	B-95				
92584718004	B-96				
92584718005	B-99				
92584718001	B-90	EPA 3005A	675834	EPA 6020B	675916
92584718002	B-91	EPA 3005A	675834	EPA 6020B	675916
92584718003	B-95	EPA 3005A	675834	EPA 6020B	675916
92584718004	B-96	EPA 3005A	675834	EPA 6020B	675916
92584718005	B-99	EPA 3005A	675834	EPA 6020B	675916

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA power

Project #: **WO#: 92584718**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: WT 1/27/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: 4.0 Correction Factor: ±0.2
Add/Subtract (°C)

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.01

Document Issued: November 15, 2021
Page 1 of 1
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project # **W0# : 92584718**

PM: NMG

Due Date: 02/10/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)		
	1																													
	2																													
	3																													
	4																													
	5																													
	6																													
	7																													
	8																													
	9																													
	10																													
	11																													
	12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Client Information: Section B Required Project Information: Section C Invoice Information:

Client Information: **Geertle Power - Coal Combustion Residues**
 2480 Manor Road
 Atlanta, GA 30339
 Contact: **labraining@roultenco.com**
 Phone: (404) 506-7238
 Fax: 10 Cav YAT
 Verified Date: 10 Cav YAT

Required Project Information:
 Report to: **Juju Abraham**
 Copy To: **Golden**
 Purchase Order #: **Plant McDonough Supplemental Sampling**
 Project Name: **Plant McDonough Supplemental Sampling**
 Project #: **16984821**

Invoice Information:
 Attention: **ecshovace@roultenco.com**
 Company Name:
 Address:
 P.O. Box:
 Project Manager: **Nicole D'Ono**
 P.O. Profile #:

Regulatory Agency: **GA**
 State / Location: **GA**

NO.	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	PRESERVATIVES							ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	PH
							# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3			
1	B-90	WT	G	1/28/2022	11:01	1	1	1	1	1	1	1	1	1	1	pH = 5.45
2	B-91	WT	G	1/28/2022	12:00	1	1	1	1	1	1	1	1	1	1	pH = 5.29
3	B-95	WT	G	1/28/2022	13:03	1	1	1	1	1	1	1	1	1	1	pH = 5.33
4	B-96	WT	G	1/28/2022	13:57	1	1	1	1	1	1	1	1	1	1	pH = 5.01
5	B-99	WT	G	1/28/2022	16:36	1	1	1	1	1	1	1	1	1	1	pH = 5.67

ADDITIONAL COMMENTS: **AW.../sample**
 RELINQUISHED BY: **M. BHT**
 DATE: **1-27-22** TIME: **8:12**
 ACCEPTED BY: **M. BHT**
 DATE: **1-27-22** TIME: **8:50**
 DATE SIGNED: **1-27-22**

March 02, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH SUPPLEMENTAL RAD
Pace Project No.: 92583576

Dear Joju Abraham:


Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM
Caitlin Tillema, ERM

Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL RAD
Pace Project No.: 92583576

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583576001	B-116D	Water	01/19/22 16:13	01/20/22 08:45
92583576002	B-117D	Water	01/19/22 12:20	01/20/22 08:45
92583576003	B-118	Water	01/19/22 13:44	01/20/22 08:45
92583576004	B-119D	Water	01/19/22 11:42	01/20/22 08:45
92583576005	EB-1	Water	01/19/22 13:25	01/20/22 08:45

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583576001	B-116D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576002	B-117D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576003	B-118	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576004	B-119D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576005	EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Sample: B-116D **Lab ID: 92583576001** Collected: 01/19/22 16:13 Received: 01/20/22 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.103 ± 0.0958 (0.179) C:92% T:NA	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.934 ± 0.466 (0.815) C:70% T:82%	pCi/L	02/03/22 10:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 0.562 (0.994)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Sample: B-117D **Lab ID: 92583576002** Collected: 01/19/22 12:20 Received: 01/20/22 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.103 ± 0.100 (0.186) C:82% T:NA	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0219 ± 0.337 (0.781) C:72% T:79%	pCi/L	02/03/22 10:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.125 ± 0.437 (0.967)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Sample: B-118 **Lab ID: 92583576003** Collected: 01/19/22 13:44 Received: 01/20/22 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0637 ± 0.0748 (0.148) C:97% T:NA	pCi/L	02/14/22 10:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.768 ± 0.417 (0.744) C:74% T:77%	pCi/L	02/03/22 10:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.832 ± 0.492 (0.892)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Sample: B-119D **Lab ID: 92583576004** Collected: 01/19/22 11:42 Received: 01/20/22 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0374 ± 0.0744 (0.172) C:86% T:NA	pCi/L	02/14/22 10:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.821 ± 0.508 (0.952) C:64% T:76%	pCi/L	02/03/22 10:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.858 ± 0.582 (1.12)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Sample: EB-1 **Lab ID: 92583576005** Collected: 01/19/22 13:25 Received: 01/20/22 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0124 ± 0.0871 (0.224) C:92% T:NA	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.00 ± 0.567 (1.05) C:61% T:82%	pCi/L	02/03/22 10:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01 ± 0.654 (1.27)	pCi/L	02/17/22 07:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

QC Batch: 480682

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

METHOD BLANK: 2322658

Matrix: Water

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.570 ± 0.392 (0.745) C:71% T:72%	pCi/L	02/03/22 10:11	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

QC Batch:	480871	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

METHOD BLANK: 2323618 Matrix: Water

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.165 ± 0.131 (0.240) C:84% T:NA	pCi/L	02/14/22 09:25	

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

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QUALIFIERS

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583576001	B-116D	EPA 9315	480871		
92583576002	B-117D	EPA 9315	480871		
92583576003	B-118	EPA 9315	480871		
92583576004	B-119D	EPA 9315	480871		
92583576005	EB-1	EPA 9315	480871		
92583576001	B-116D	EPA 9320	480682		
92583576002	B-117D	EPA 9320	480682		
92583576003	B-118	EPA 9320	480682		
92583576004	B-119D	EPA 9320	480682		
92583576005	EB-1	EPA 9320	480682		
92583576001	B-116D	Total Radium Calculation	484431		
92583576002	B-117D	Total Radium Calculation	484431		
92583576003	B-118	Total Radium Calculation	484431		
92583576004	B-119D	Total Radium Calculation	484431		
92583576005	EB-1	Total Radium Calculation	484431		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:

GA Power CCR

Project #:

WO# : 92583576



Courier: Fed Ex UPS USPS client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/20/22
CR

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

PHR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 5.6/20/3 Correction Factor: Add/Subtract (°S) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.7/2.1/3.4/4.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92583576

PM: NMG

Due Date: 02/10/22

CLIENT: GA-GA Power

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
2		2	1																											
3		2	1																											
4		2	1																											
5		2	1																											
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Section B
Section C
Section D

Project Information:
 Project Name: Georgia Power - Coal Combustion Residuals
 Report To: John Abraham
 Copy To: Galder
 Address: Atlanta, GA 30330
 Project #.: 10049821

Requester Information:
 Requested By: John Abraham
 Title: Project Manager
 Phone: (404) 508-7298
 Fax: (404) 508-7298
 Email: j.abraham@gepower.com
 Project #.: 10049821

Regulatory Agency:
 State / Location: GA

ID	SAMPLE ID	MTRX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	PRESERVATIVES							ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	PH					
						# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3				Methanol	Other	Y/N	App I/IV Total Metals	Cl, F, SO4, TDS
1	B-118D	Q	Q	1/18/2022	16:13	6	3	3						X	X	X	X	X	X	8.04
2	B-117D	Q	Q	1/18/2022	12:20	6	3	3						X	X	X	X	X	X	8.02
3	B-118	Q	Q	1/18/2022	13:34	6	3	5						X	X	X	X	X	X	6.01
4	B-118D	Q	Q	1/18/2022	11:42	6	3	3						X	X	X	X	X	X	6.81
5	EB-1	G	G	1/18/2022	13:25	6	3	3						X	X	X	X	X	X	
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

ADDITIONAL COMMENTS:
 Released by: SPN.../SAMPLEA
 Date: 1/20/22
 Time: 8:05
 Accepted by: [Signature]
 Date: 1/30/22
 Time: 8:05

TEMP in C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

DATE SIGNED: 1/20/22
 JUDGE WAGERSPACK / SPN...

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/3/2022
Worklist: 64792
Matrix: DW



Method Blank Assessment	
MB Sample ID	2323618
MB Concentration:	0.165
MB Counting Uncertainty:	0.128
MB MDC:	0.240
MB Numerical Performance Indicator:	2.52
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?		Y
	LCS64792	LCS64792	
Count Date:	2/14/2022	2/14/2022	LCS64792
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.030	24.030	24.030
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.520	0.512	0.512
Target Conc. (pCi/L, g, F):	4.619	4.693	4.693
Uncertainty (Calculated):	0.055	0.056	0.056
Result (pCi/L, g, F):	5.157	4.566	4.566
LCSD Counting Uncertainty (pCi/L, g, F):	0.513	0.481	0.481
Numerical Performance Indicator:	2.04	-0.56	-0.56
Percent Recovery:	111.66%	97.07%	97.07%
Status vs Numerical Indicator:	N/A	N/A	N/A
Status vs Recovery:	Pass	Pass	Pass
Upper % Recovery Limits:	125%	125%	125%
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment	LCSD (Y or N)?		Y
	LCS64792	LCS64792	
Sample I.D.:	LCS64792	92583570002	92583570002
Duplicate Sample I.D.:	LCS64792	92583570002DUP	92583570002DUP
Sample Result (pCi/L, g, F):	5.157	0.033	0.033
Sample Result Counting Uncertainty (pCi/L, g, F):	0.513	0.116	0.116
Sample Duplicate Result (pCi/L, g, F):	4.556	0.106	0.106
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.481	0.084	0.084
Are sample and/or duplicate results below RL?	NO	See Below #	See Below #
Duplicate Numerical Performance Indicator:	1.675	-1.001	-1.001
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	13.98%	105.06%	105.06%
Duplicate Status vs Numerical Indicator:	N/A	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail	Fail
% RPD Limit:	25%	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

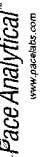
***Batch must be re-prepped due to unacceptable precision.

results < mdc, N/A
Nuz 2/22/22

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample ID:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/11/2022
Worklist: 64779
Matrix: WT

Method Blank Assessment	
MB Sample ID	2322658
MB concentration:	0.570
MB 2 Sigma CSU:	0.392
MB MDC:	0.745
MB Numerical Performance Indicator:	2.85
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS64779	LCS64779
Count Date:	2/3/2022	
Spike ID:	21-029	
Decay Corrected Spike Concentration (pCi/mL):	36.476	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.813	
Target Conc. (pCi/L, g, F):	4.488	
Uncertainty (Calculated):	0.220	
Result (pCi/L, g, F):	4.867	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.075	
Numerical Performance Indicator:	0.68	
Percent Recovery:	108/45%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample ID: Duplicate Sample ID: Sample Result (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F): Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL? Duplicate Numerical Performance Indicator: Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: %RPD Limit:	See Below ##

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:	1/11/2022 92583991001 92583991002 92583991003 21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):	36.752 0.20 0.20 9.084 0.808 9.103 0.445 0.446	
Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result:	0.351 11.356	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:	2.218 10.605 2.096 1.792 1.194	
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MS Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:	123.05% 114.53% Pass Pass 135% 60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: %RPD Limit:	92583991001 92583991002 92583991003 11.356 2.218 10.605 2.096 0.483 7.17% Pass Pass 36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

2/12/2022 VAL

January 31, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH SURFACE WATER
Pace Project No.: 92583499

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda
Anna Bottum, ERM
Andrea Brazell, ERM
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
J. Shelby Mobley
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta
Lacy Smith, ERM

Caitlin Tillema, ERM
Christine Weaver, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583499001	SW-1	Water	01/19/22 15:52	01/20/22 08:45
92583499002	SW-2	Water	01/19/22 15:04	01/20/22 08:45
92583499003	SW-3	Water	01/19/22 14:43	01/20/22 08:45
92583499004	SW-4	Water	01/19/22 14:18	01/20/22 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92583499001	SW-1	EPA 6020B	CW1	1
92583499002	SW-2	EPA 6020B	CW1	1
92583499003	SW-3	EPA 6020B	CW1	1
92583499004	SW-4	EPA 6020B	CW1	1

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Sample: SW-1		Lab ID: 92583499001		Collected: 01/19/22 15:52		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 11:25		
pH	6.84	Std. Units			1		01/20/22 11:25		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	0.50	mg/L	0.040	0.0086	1	01/20/22 12:51	01/24/22 14:56	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Sample: SW-2		Lab ID: 92583499002		Collected: 01/19/22 15:04	Received: 01/20/22 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		01/20/22 11:25		
pH	7.43	Std. Units			1		01/20/22 11:25		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	0.091	mg/L	0.040	0.0086	1	01/26/22 09:56	01/28/22 17:02	7440-42-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Sample: SW-3		Lab ID: 92583499003		Collected: 01/19/22 14:43		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/20/22 11:25		
pH	7.39	Std. Units			1		01/20/22 11:25		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	0.20	mg/L	0.040	0.0086	1	01/26/22 09:56	01/28/22 17:14	7440-42-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Sample: SW-4		Lab ID: 92583499004		Collected: 01/19/22 14:18		Received: 01/20/22 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		01/20/22 11:25		
pH	7.02	Std. Units			1		01/20/22 11:25		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	0.55	mg/L	0.040	0.0086	1	01/26/22 09:56	01/28/22 17:19	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

QC Batch: 672826	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583499001

METHOD BLANK: 3521770 Matrix: Water

Associated Lab Samples: 92583499001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	01/21/22 15:28	

LABORATORY CONTROL SAMPLE: 3521771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3521772 3521773

Parameter	Units	3521772		3521773		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92583499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Boron	mg/L	0.50	1	1	1.5	1.5	99	98	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH SURFACE WATER
Pace Project No.: 92583499

QC Batch: 673907 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92583499002, 92583499003, 92583499004

METHOD BLANK: 3527228 Matrix: Water
Associated Lab Samples: 92583499002, 92583499003, 92583499004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	01/28/22 14:51	

LABORATORY CONTROL SAMPLE: 3527229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527230 3527231

Parameter	Units	92583142001		3527231		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	ND	1	1	0.93	0.88	93	88	75-125	6	20

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SURFACE WATER
Pace Project No.: 92583499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583499001	SW-1				
92583499002	SW-2				
92583499003	SW-3				
92583499004	SW-4				
92583499001	SW-1	EPA 3005A	672826	EPA 6020B	672836
92583499002	SW-2	EPA 3005A	673907	EPA 6020B	673938
92583499003	SW-3	EPA 3005A	673907	EPA 6020B	673938
92583499004	SW-4	EPA 3005A	673907	EPA 6020B	673938

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition:
Upon Receipt

Client Name: GA Power CCR Project #:

WO#: 92583499



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/20/22
CDH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 5.6/20/23 Correction Factor: +0.1
4.4 Add/Subtract (6)

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.7/2.1/3.4/4.5

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92583499

PM: NMG

Due Date: 02/03/22

CLIENT: GA-GA Power

~~Exceptions: VOA, Coliform, TSS, Oil and Grease, DRG, 2015 (updated) DOC, UHg~~

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Requested Client Information:
 Analytical: Georgia Power - Coal Combustion Residuals
 Street: 2480 Warner Road
 Atlanta, GA 30339

Section B
 Requested Project Information:
 Report To: Jody Albritton
 Copy To: Odeker
 Project Name: Plant MacDonough Surface Water Sampling
 Project #: 10044921

Section C
 Invoice Information:
 Address: acshvcs@scouthemco.com
 Company Name:
 Address:
 Phone:
 Fax:
 Project Manager: Nicole Dorio

Page: 1 of 1

Requested Due Date: 10 Day TAT

Purchase Order #: Plant MacDonough Surface Water Sampling
 Project #: 10044921

Requester Analysis Filtered (Y/N)
 Residual Chlorine (Y/N)
 State / Location: GA

ITEM #	SAMPLE ID	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS						Analytes Test	Residual Chlorine (Y/N)	
							Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3			Methanol
1	SM-1	Drainage Water	WT	1/18/2022	15:52		1	1	1	1	1	1	1	1	PH = 6.84
2	SM-2	Water	WT	1/18/2022	15:04		1	1	1	1	1	1	1	1	PH = 7.43
3	SM-3	Water	WT	1/18/2022	14:43		1	1	1	1	1	1	1	1	PH = 7.39
4	SM-4	Water	WT	1/18/2022	14:18		1	1	1	1	1	1	1	1	PH = 7.02
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															

ADDITIONAL COMMENTS: JDE WAGES/PACK / JDE... DATE Signed: 1/20/22

REQUISITIONED BY / AFFILIATION: JDE... DATE: 1/20/22 TIME: 8:05

ACCEPTED BY / AFFILIATION: JDE... DATE: 1/20/22 TIME: 8:05

TEMP in C: _____

Received on ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples intact (Y/N): _____

February 02, 2022

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

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

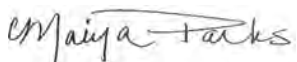
Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92584543001	CR+0.4 (Mid)	Water	01/25/22 10:45	01/26/22 12:35
92584543002	CR+0.2 (Mid)	Water	01/25/22 10:53	01/26/22 12:35
92584543003	CR-0.1 (Mid)	Water	01/25/22 11:01	01/26/22 12:35
92584543004	DW_DS (Mid)	Water	01/25/22 11:09	01/26/22 12:35
92584543005	DW_US (Mid)	Water	01/25/22 11:15	01/26/22 12:35
92584543006	CR-0.2 (Mid)	Water	01/25/22 11:20	01/26/22 12:35
92584543007	CR-0.5 (Mid)	Water	01/25/22 11:28	01/26/22 12:35
92584543008	CR-0.8 (Mid)	Water	01/25/22 11:38	01/26/22 12:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92584543001	CR+0.4 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543002	CR+0.2 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543003	CR-0.1 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543004	DW_DS (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543005	DW_US (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543006	CR-0.2 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543007	CR-0.5 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543008	CR-0.8 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

Sample: CR+0.4 (Mid)		Lab ID: 92584543001	Collected: 01/25/22 10:45	Received: 01/26/22 12:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 17:46	7440-09-7	
Sodium	7.7	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:46	7440-23-5	
Calcium	5.3	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:46	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	01/28/22 12:43	01/28/22 17:46	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:23	7440-38-2	
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 18:57	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 18:57	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	01/31/22 11:43	02/02/22 00:23	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	55.0	mg/L	10.0	1		02/01/22 13:54		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	8.1	mg/L	1.0	1		01/27/22 23:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/27/22 23:37	16984-48-8	
Sulfate	5.5	mg/L	1.0	1		01/27/22 23:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR+0.2 (Mid)	Lab ID: 92584543002	Collected: 01/25/22 10:53		Received: 01/26/22 12:35		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 17:51	7440-09-7	
Sodium	8.9	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:51	7440-23-5	
Calcium	7.8	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:51	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	01/28/22 12:43	01/28/22 17:51	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.062	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:15	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:15	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	63.0	mg/L	10.0	1		02/01/22 13:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.0	mg/L	1.0	1		01/27/22 23:51	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/27/22 23:51	16984-48-8	
Sulfate	9.3	mg/L	1.0	1		01/27/22 23:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR-0.1 (Mid)	Lab ID: 92584543003	Collected: 01/25/22 11:01	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.1	mg/L	0.20	1	01/28/22 12:43	01/28/22 17:56	7440-09-7	
Sodium	8.3	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:56	7440-23-5	
Calcium	6.0	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:56	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	01/28/22 12:43	01/28/22 17:56	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:21	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:21	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	65.0	mg/L	10.0	1		02/01/22 13:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.5	mg/L	1.0	1		01/28/22 00:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 00:05	16984-48-8	
Sulfate	7.0	mg/L	1.0	1		01/28/22 00:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: DW_DS (Mid)	Lab ID: 92584543004	Collected: 01/25/22 11:09	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.7	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:01	7440-09-7	
Sodium	10.7	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:01	7440-23-5	
Calcium	7.7	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:01	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:01	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.070	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:27	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:27	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	83.0	mg/L	10.0	1		02/01/22 13:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	11.4	mg/L	1.0	1		01/28/22 00:19	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 00:19	16984-48-8	
Sulfate	10.4	mg/L	1.0	1		01/28/22 00:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: DW_US (Mid)	Lab ID: 92584543005	Collected: 01/25/22 11:15	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:15	7440-09-7	
Sodium	7.4	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:15	7440-23-5	
Calcium	5.1	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:15	7440-70-2	
Magnesium	1.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:15	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:33	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:33	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	59.0	mg/L	10.0	1		02/01/22 13:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	7.8	mg/L	1.0	1		01/28/22 00:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 00:33	16984-48-8	
Sulfate	4.7	mg/L	1.0	1		01/28/22 00:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR-0.2 (Mid)	Lab ID: 92584543006	Collected: 01/25/22 11:20	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:20	7440-09-7	
Sodium	7.4	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:20	7440-23-5	
Calcium	5.1	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:20	7440-70-2	
Magnesium	1.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:20	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:29	7440-38-2	
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:39	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:39	7440-48-4	
Selenium	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:39	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	61.0	mg/L	10.0	1		02/01/22 14:02		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	7.9	mg/L	1.0	1		01/28/22 01:15	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 01:15	16984-48-8	
Sulfate	4.7	mg/L	1.0	1		01/28/22 01:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR-0.5 (Mid)	Lab ID: 92584543007	Collected: 01/25/22 11:28	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:24	7440-09-7	
Sodium	7.5	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:24	7440-23-5	
Calcium	6.6	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:24	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:24	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:35	7440-38-2	
Boron	0.046	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:45	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:45	7440-48-4	
Selenium	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:45	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	59.0	mg/L	10.0	1		02/01/22 14:03		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	8.2	mg/L	1.0	1		01/28/22 01:29	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 01:29	16984-48-8	
Sulfate	9.3	mg/L	1.0	1		01/28/22 01:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR-0.8 (Mid)	Lab ID: 92584543008	Collected: 01/25/22 11:38	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.9	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:29	7440-09-7	
Sodium	7.3	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:29	7440-23-5	
Calcium	5.4	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:29	7440-70-2	
Magnesium	1.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:29	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:41	7440-38-2	
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:51	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:51	7440-48-4	
Selenium	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:51	7782-49-2	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	57.0	mg/L	10.0	1		02/01/22 14:07		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	8.0	mg/L	1.0	1		01/28/22 01:43	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 01:43	16984-48-8	
Sulfate	4.6	mg/L	1.0	1		01/28/22 01:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

QC Batch: 674583 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

METHOD BLANK: 3530749 Matrix: Water
Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	01/28/22 16:50	
Magnesium	mg/L	ND	0.050	01/28/22 16:50	
Potassium	mg/L	ND	0.20	01/28/22 16:50	
Sodium	mg/L	ND	1.0	01/28/22 16:50	

LABORATORY CONTROL SAMPLE: 3530750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.95J	95	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530751 3530752

Parameter	Units	92584522001 Result	MS Spike Conc.	MSD Spike Conc.	3530751		3530752		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	16.2	1	1	17.1	16.7	86	47	75-125	2	20	M1
Magnesium	mg/L	3.5	1	1	4.4	4.4	89	84	75-125	1	20	
Potassium	mg/L	3.0	1	1	3.9	3.7	86	66	75-125	5	20	M1
Sodium	mg/L	16.3	1	1	17.0	16.7	71	33	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

QC Batch: 674904 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

METHOD BLANK: 3532552 Matrix: Water
Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	02/01/22 23:53	
Boron	mg/L	ND	0.040	01/31/22 18:03	
Cobalt	mg/L	ND	0.0050	01/31/22 18:03	
Molybdenum	mg/L	ND	0.010	01/31/22 18:03	
Selenium	mg/L	ND	0.0050	01/31/22 18:03	

LABORATORY CONTROL SAMPLE: 3532553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532554 3532555

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584522001 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20
Boron	mg/L	0.049	1	1	1.1	1.1	100	104	75-125	3	20
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	108	110	75-125	2	20
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

QC Batch: 675199 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007

METHOD BLANK: 3533876

Matrix: Water

Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/01/22 13:52	

LABORATORY CONTROL SAMPLE: 3533877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3533878

Parameter	Units	92583953022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	269	5	25	

SAMPLE DUPLICATE: 3533879

Parameter	Units	92584522003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	137	1	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

QC Batch: 675202 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584543008

METHOD BLANK: 3533883 Matrix: Water
Associated Lab Samples: 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/01/22 14:06	

LABORATORY CONTROL SAMPLE: 3533884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3533885

Parameter	Units	92584543008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	52.0	9	25	

SAMPLE DUPLICATE: 3533886

Parameter	Units	92585000001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	66.0	16	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

QC Batch:	674218	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

METHOD BLANK: 3528694 Matrix: Water
Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/27/22 20:50	
Fluoride	mg/L	ND	0.10	01/27/22 20:50	
Sulfate	mg/L	ND	1.0	01/27/22 20:50	

LABORATORY CONTROL SAMPLE: 3528695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528696 3528697

Parameter	Units	92584437011		3528697		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	10.0	50	50	61.4	61.5	103	103	90-110	0	10
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	108	90-110	2	10
Sulfate	mg/L	5.0	50	50	55.8	55.3	102	101	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528698 3528699

Parameter	Units	92584543005		3528699		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	7.8	50	50	59.0	60.6	102	106	90-110	3	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	99	90-110	4	10
Sulfate	mg/L	4.7	50	50	54.8	57.0	100	105	90-110	4	10

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

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92584543

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92584543001	CR+0.4 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543002	CR+0.2 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543003	CR-0.1 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543004	DW_DS (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543005	DW_US (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543006	CR-0.2 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543007	CR-0.5 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543008	CR-0.8 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543001	CR+0.4 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543002	CR+0.2 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543003	CR-0.1 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543004	DW_DS (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543005	DW_US (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543006	CR-0.2 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543007	CR-0.5 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543008	CR-0.8 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543001	CR+0.4 (Mid)	SM 2540C-2015	675199		
92584543002	CR+0.2 (Mid)	SM 2540C-2015	675199		
92584543003	CR-0.1 (Mid)	SM 2540C-2015	675199		
92584543004	DW_DS (Mid)	SM 2540C-2015	675199		
92584543005	DW_US (Mid)	SM 2540C-2015	675199		
92584543006	CR-0.2 (Mid)	SM 2540C-2015	675199		
92584543007	CR-0.5 (Mid)	SM 2540C-2015	675199		
92584543008	CR-0.8 (Mid)	SM 2540C-2015	675202		
92584543001	CR+0.4 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543002	CR+0.2 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543003	CR-0.1 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543004	DW_DS (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543005	DW_US (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543006	CR-0.2 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543007	CR-0.5 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543008	CR-0.8 (Mid)	EPA 300.0 Rev 2.1 1993	674218		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:

Company: ARCADIS - Atlanta
 Address: 2639 Paces Ferry Rd
 Atlanta, GA 30339
 Email: warren.johnson@arcadis.com
 Phone: 678.485.5298
 Requested Due Date: 5 day TAT

Section B
 Required Project Information:

Report To: Jiju Abraham, Allison Keefer, Ben Hodges
 Copy To: Warren Johnson
 Purchase Order #: SCS10982775
 Project Name: Plant McDonough
 Project #:

Section C
 Invoice Information:

Attention: Jiju Abraham
 Company Name: GFC
 Address:
 Pace Quote:
 Pace Project Manager: Maya.Paris@pacestbs.com
 Pace Profile #: 2239
 Regulatory Agency: State / Location GA

ITEM #	SAMPLE ID (A-Z, 0-9, -, /) One Character per box. Sample IDs must be unique	MATRIX Drinking Water Waste Water Surface Water Product Oil Wine Air Other Trace	CODE DW WT WW P SL WFP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)												
						START	END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																
						DATE	TIME			DATE	TIME																					
1	CR+0.4 MID			WT	G	1/25/2021	1045																									
2	CR+0.2 MID			WT	G	1/25/2022	1053																									
3	CR-0.1 MID			WT	G	1/25/2022	1101																									
4	DW_DS MID			WT	G	1/25/2022	1109																									
5	DW_US MID			WT	G	1/25/2022	1115																									
6	CR-0.2 MID			WT	G	1/25/2022	1120																									
7	CR-0.5 MID			WT	G	1/25/2022	1128																									
8	CR-0.8 MID			WT	G	1/25/2022	1138																									
9																																
10																																
11																																
12																																

CCR App III - Bacon, Calcium, Chloride, Fluoride, Sulfate, TDS
 Major Ions? - Mg, Na, K, total alkalinity, bicarbonate alkalinity

RELINQUISHED BY / AFFILIATION: *J. Arcadis*
 DATE: *1/23/22* TIME: *1:35*

ACCEPTED BY / AFFILIATION: *Charles Park*
 DATE: *1/24/22* TIME: *12:35*

ADDITIONAL COMMENTS

SAMPLER NAME AND SIGNATURE: *Darrell Gaborus*
 PRINT Name of SAMPLER: *Darrell Gaborus*
 DATE: *1-26-22*

IP in C
 dived on
 copy to
 files

WO#: 92584543



92584543

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Arcadis

Project #:

WO# : 92584543

PM: MP Due Date: 02/02/22
 CLIENT: GA-ArcadAt1

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *1/26/22*
MP

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 5.5 Correction Factor: Add/Subtract (°C) 40.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.8

USDA Regulated Soil (N/A, water sample)

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

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

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <i>PT rec. 00H</i>
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

Project #

WO# : 92584543

PM: MP

CLIENT: GA-ArcadAt

Due Date: 02/02/22

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	2	1																										
2	2	1																										
3	2	1																										
4	2	1																										
5	2	1																										
6	2	1																										
7	2	1																										
8	2	1																										
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 02, 2022

Maiya Parks
Pace Analytical Atlanta

110 Technology Pkwy
Peachtree Corners GA 30092

RE: 92584543

Dear Maiya Parks:

Order No: 2201S79

Analytical Environmental Services, Inc. received 8 samples on 1/27/2022 7:43:00 AM for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES’s accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Chain of Custody

PASI Charlotte Laboratory



2201579



Workorder: 92584543

Workorder Name: Plant McDonough CCR-Ash Pond

Results Requested By: 2/2/2022

Report / Invoice To		Subcontract To			Requested Analysis											
Maiya Parks Pace Analytical Atlanta 110 Technology Parkway Peachtree Corners, GA 30092 Phone (770)734-4200 Email: maiya.parks@pacelabs.com		AES Atlanta			P.O. 92584543MP											
State of Sample Origin: GA				Preserved Containers												
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved											LAB USE ONLY
1	CR+0.4 Mid	1/25/2022 10:45	92584543001	Water	1											
2	CR+0.2 Mid	1/25/2022 10:53	92584543002	Water	1											
3	CR-0.1 Mid	1/25/2022 11:01	92584543003	Water	1											
4	DW_DS Mid	1/25/2022 11:09	92584543004	Water	1											
5	DW_US Mid	1/25/2022 11:15	92584543005	Water	1											
6	CR-0.2 Mid	1/25/2022 11:20	92584543006	Water	1											
7	CR-0.5 Mid	1/25/2022 11:28	92584543007	Water	1											
8	CR-0.8 Mid	1/25/2022 11:38	92584543008	Water	1											
9																
10																
11																
12																
												Comments				
Transfers	Released By	Date/Time	Received By	Date/Time	Total & Bicarb Alk											
1	Kyle Williams / Pac	1/27/22 0743	Dustin Campbell	1/27/22 7:43												
2																
3																
Cooler Temperature on Receipt _____ °C		Custody Seal Y or N			Received on Ice Y or N				Samples Intact Y or N							

Client: Pace Analytical Atlanta	Client Sample ID: CR+0.4 MID
Project Name: 92584543	Collection Date: 1/25/2022 10:45:00 AM
Lab ID: 2201S79-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	23.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	23.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: CR+0.2 MID
Project Name: 92584543	Collection Date: 1/25/2022 10:53:00 AM
Lab ID: 2201S79-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	24.2	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	24.2	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: CR-0.1 MID
Project Name: 92584543	Collection Date: 1/25/2022 11:01:00 AM
Lab ID: 2201S79-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	24.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	24.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: DW_DS MID
Project Name: 92584543	Collection Date: 1/25/2022 11:09:00 AM
Lab ID: 2201S79-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	25.8	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	25.8	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: DW_US MID
Project Name: 92584543	Collection Date: 1/25/2022 11:15:00 AM
Lab ID: 2201S79-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	22.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	22.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: CR-0.2 MID
Project Name: 92584543	Collection Date: 1/25/2022 11:20:00 AM
Lab ID: 2201S79-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	20.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	20.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: CR-0.5 MID
Project Name: 92584543	Collection Date: 1/25/2022 11:28:00 AM
Lab ID: 2201S79-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	23.3	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	23.3	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: CR-0.8MID
Project Name: 92584543	Collection Date: 1/25/2022 11:38:00 AM
Lab ID: 2201S79-008	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	21.0	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	21.0	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



Pace Analytical

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

Client Name: _____ AES Work Order Number: **2201579**

Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details			Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/>	leaking <input type="checkbox"/>	other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
7. Cooler temperature(s) within limits of 0-8°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>			
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>			

13. Cooler 1 Temperature 0.7 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____ I certify that I have completed sections 1-15 (dated initials). DS 1/27/22

	Yes	No	N/A	Details			Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
17. Custody seals present on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
18. Custody seals intact on sample containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/>	illegible <input type="checkbox"/>	other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/>			
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples listed on COC not received <input type="checkbox"/>			
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input type="checkbox"/>	not listed on COC <input type="checkbox"/>		

27. Comments: _____ I certify that I have completed sections 16-27 (dated initials). DS 1/27/22

	Yes	No	N/A	Details			Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				
30. Was pH adjusted at Sample Receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>				

31. * Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and OI & Grease/TPH.
 32. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.
 I certify that I have completed sections 28-30 (dated initials). DS 1/27/22



Client: Pace Analytical Atlanta
 Project Name: 92584543
 Workorder: 2201S79

ANALYTICAL QC SUMMARY REPORT

BatchID: R476367

Sample ID: LCS-R476367	Client ID:	Units: mg/L	Prep Date:	Run No: 476367							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R476367	Analysis Date: 02/01/2022	Seq No: 10996213							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	126.5	3.00	125.0		101	90	110				
------------------------------	-------	------	-------	--	-----	----	-----	--	--	--	--

Sample ID: 2201U12-001DDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 476367							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R476367	Analysis Date: 02/01/2022	Seq No: 10996217							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	47.21	3.00						43.36	8.49	30	
------------------------------	-------	------	--	--	--	--	--	-------	------	----	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

APPENDIX B

Analytical Result

June 2022

June 21, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between June 08, 2022 and June 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda, Southern Company
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92608499001	DGWC-121	Water	06/06/22 11:59	06/08/22 10:35
92608499002	B-122D	Water	06/06/22 11:30	06/08/22 10:35
92608499003	DUP-1	Water	06/06/22 00:00	06/08/22 10:35
92608499004	FB-1	Water	06/07/22 16:35	06/08/22 10:35
92608499005	EB-1	Water	06/06/22 12:00	06/08/22 10:35
92608499006	B-123D	Water	06/09/22 17:18	06/10/22 13:12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92608499001	DGWC-121	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499002	B-122D	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499003	DUP-1	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499004	FB-1	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499005	EB-1	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499006	B-123D	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Lab ID	Sample ID	Method	Analysts	Analytes Reported
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PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Sample: DGWC-121 Lab ID: 92608499001 Collected: 06/06/22 11:59 Received: 06/08/22 10:35 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		06/08/22 12:37		
pH	6.33	Std. Units			1		06/08/22 12:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	4.3	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:16	7439-89-6	
Manganese	1.2	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:16	7439-96-5	
Potassium	4.1	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:16	7440-09-7	
Sodium	11.0	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:16	7440-23-5	
Calcium	44.1	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:16	7440-70-2	
Magnesium	12.3	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:16	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:00	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:00	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 15:55	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 15:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:00	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:00	7439-93-2	
Molybdenum	0.00093J	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:21	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	113	mg/L	5.0	5.0	1		06/10/22 17:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 17:45		
Alkalinity, Total as CaCO3	113	mg/L	5.0	5.0	1		06/10/22 17:45		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville									
Total Dissolved Solids	270	mg/L	25.0	25.0	1		06/10/22 15:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: DGWC-121 **Lab ID: 92608499001** Collected: 06/06/22 11:59 Received: 06/08/22 10:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		06/13/22 00:30	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		06/13/22 00:30	16984-48-8	
Sulfate	83.9	mg/L	1.0	0.50	1		06/13/22 00:30	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Sample: B-122D		Lab ID: 92608499002		Collected: 06/06/22 11:30		Received: 06/08/22 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		06/08/22 12:37		
pH	6.02	Std. Units			1		06/08/22 12:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	10.9	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:21	7439-89-6	
Manganese	3.2	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:21	7439-96-5	
Potassium	3.5	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:21	7440-09-7	
Sodium	25.4	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:21	7440-23-5	
Calcium	48.3	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:21	7440-70-2	
Magnesium	8.6	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:21	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:06	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:06	7440-39-3	
Beryllium	0.00024J	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:06	7440-41-7	
Boron	0.20	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:01	7440-47-3	
Cobalt	0.0060	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:06	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:23	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	117	mg/L	5.0	5.0	1		06/10/22 17:55		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/10/22 17:55		
Alkalinity, Total as CaCO ₃	117	mg/L	5.0	5.0	1		06/10/22 17:55		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville									
Total Dissolved Solids	307	mg/L	25.0	25.0	1		06/10/22 15:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: B-122D **Lab ID: 92608499002** Collected: 06/06/22 11:30 Received: 06/08/22 10:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	18.4	mg/L	1.0	0.60	1		06/13/22 00:45	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		06/13/22 00:45	16984-48-8	
Sulfate	97.7	mg/L	1.0	0.50	1		06/13/22 00:45	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Sample: DUP-1		Lab ID: 92608499003		Collected: 06/06/22 00:00	Received: 06/08/22 10:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Iron	3.9	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:25	7439-89-6	
Manganese	1.2	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:25	7439-96-5	
Potassium	3.8	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:25	7440-09-7	
Sodium	10.2	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:25	7440-23-5	
Calcium	41.0	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:25	7440-70-2	
Magnesium	11.3	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:25	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:12	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:12	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:07	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:12	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:12	7439-93-2	
Molybdenum	0.00096J	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:12	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:26	7439-97-6	
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	110	mg/L	5.0	5.0	1		06/10/22 18:05		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/10/22 18:05		
Alkalinity, Total as CaCO ₃	110	mg/L	5.0	5.0	1		06/10/22 18:05		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville							
Total Dissolved Solids	275	mg/L	25.0	25.0	1		06/10/22 15:26		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	4.7	mg/L	1.0	0.60	1		06/13/22 01:01	16887-00-6	
Fluoride	0.058J	mg/L	0.10	0.050	1		06/13/22 01:01	16984-48-8	
Sulfate	84.0	mg/L	1.0	0.50	1		06/13/22 01:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Sample: FB-1 Lab ID: 92608499004 Collected: 06/07/22 16:35 Received: 06/08/22 10:35 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:39	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:39	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:39	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:39	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:39	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:39	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:18	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:29	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 19:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 19:46		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/10/22 19:46		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/10/22 15:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		06/13/22 01:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/13/22 01:17	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/13/22 01:17	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Sample: EB-1		Lab ID: 92608499005		Collected: 06/06/22 12:00	Received: 06/08/22 10:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:44	7439-89-6		
Manganese	ND	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:44	7439-96-5		
Potassium	ND	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:44	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:44	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:44	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:44	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:24	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:24	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:24	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:24	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:24	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:19	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:19	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:24	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:24	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:24	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:24	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:31	7439-97-6		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 18:14			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 18:14			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/10/22 18:14			
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/10/22 15:26			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/13/22 02:05	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		06/13/22 02:05	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		06/13/22 02:05	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND
 Pace Project No.: 92608499

Sample: B-123D		Lab ID: 92608499006		Collected: 06/09/22 17:18		Received: 06/10/22 13:12		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		06/10/22 15:04		
pH	6.48	Std. Units			1		06/10/22 15:04		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	24.2	mg/L	0.040	0.025	1	06/14/22 10:36	06/14/22 20:58	7439-89-6	
Manganese	8.9	mg/L	0.040	0.0043	1	06/14/22 10:36	06/14/22 20:58	7439-96-5	
Potassium	10.9	mg/L	0.20	0.15	1	06/14/22 10:36	06/14/22 20:58	7440-09-7	BC
Sodium	35.2	mg/L	1.0	0.58	1	06/14/22 10:36	06/14/22 20:58	7440-23-5	
Calcium	90.4	mg/L	1.0	0.12	1	06/14/22 10:36	06/14/22 20:58	7440-70-2	
Magnesium	15.4	mg/L	0.050	0.012	1	06/14/22 10:36	06/14/22 20:58	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/16/22 11:03	06/18/22 10:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/16/22 11:03	06/18/22 10:39	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	06/16/22 11:03	06/18/22 10:39	7440-39-3	
Beryllium	0.0020	mg/L	0.00050	0.000054	1	06/16/22 11:03	06/18/22 10:39	7440-41-7	
Boron	0.55	mg/L	0.040	0.0086	1	06/16/22 11:03	06/18/22 10:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/16/22 11:03	06/18/22 10:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/16/22 11:03	06/18/22 10:39	7440-47-3	
Cobalt	0.068	mg/L	0.0050	0.00039	1	06/16/22 11:03	06/18/22 10:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/16/22 11:03	06/18/22 10:39	7439-92-1	
Lithium	0.031	mg/L	0.030	0.00073	1	06/16/22 11:03	06/18/22 10:39	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00074	1	06/16/22 11:03	06/18/22 10:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/16/22 11:03	06/18/22 10:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/16/22 11:03	06/18/22 10:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:34	7439-97-6	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	65.7	mg/L	5.0	5.0	1		06/16/22 13:21		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/16/22 13:21		
Alkalinity, Total as CaCO ₃	65.7	mg/L	5.0	5.0	1		06/16/22 13:21		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville									
Total Dissolved Solids	602	mg/L	50.0	50.0	1		06/15/22 15:21		

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ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: B-123D **Lab ID: 92608499006** Collected: 06/09/22 17:18 Received: 06/10/22 13:12 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	13.2	mg/L	1.0	0.60	1		06/14/22 10:19	16887-00-6	
Fluoride	0.48	mg/L	0.10	0.050	1		06/14/22 10:19	16984-48-8	
Sulfate	175	mg/L	7.0	3.5	7		06/14/22 15:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 703611 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3671695 Matrix: Water
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/10/22 18:47	
Iron	mg/L	ND	0.040	0.025	06/10/22 18:47	
Magnesium	mg/L	ND	0.050	0.012	06/10/22 18:47	
Manganese	mg/L	ND	0.040	0.0043	06/10/22 18:47	
Potassium	mg/L	ND	0.20	0.15	06/10/22 18:47	
Sodium	mg/L	ND	1.0	0.58	06/10/22 18:47	

LABORATORY CONTROL SAMPLE: 3671696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671697 3671698

Parameter	Units	3671697		3671698		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	53500 ug/L	1	1	57.2	55.6	373	206	75-125	3	20 M1
Iron	mg/L	2720 ug/L	1	1	4.0	3.8	131	112	75-125	5	20 M1
Magnesium	mg/L	11400 ug/L	1	1	13.0	12.6	160	120	75-125	3	20 M1
Manganese	mg/L	61.8 ug/L	1	1	1.1	1.0	101	95	75-125	6	20
Potassium	mg/L	4880 ug/L	1	1	6.1	5.9	118	104	75-125	2	20
Sodium	mg/L	22700 ug/L	1	1	24.9	24.2	219	154	75-125	3	20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 704300 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92608499006

METHOD BLANK: 3675119 Matrix: Water
Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/14/22 19:23	
Iron	mg/L	ND	0.040	0.025	06/14/22 19:23	
Magnesium	mg/L	ND	0.050	0.012	06/14/22 19:23	
Manganese	mg/L	ND	0.040	0.0043	06/14/22 19:23	
Potassium	mg/L	ND	0.20	0.15	06/16/22 10:47	
Sodium	mg/L	ND	1.0	0.58	06/14/22 19:23	

LABORATORY CONTROL SAMPLE: 3675120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Manganese	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3675121 3675122

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92609119001 Result	Spike Conc.	Spike Conc.	Result							Result
Calcium	mg/L	24000 ug/L	1	1	25.2	25.5	117	148	75-125	1	20	M1
Iron	mg/L	422 ug/L	1	1	1.5	2.0	109	161	75-125	29	20	M1,R1
Magnesium	mg/L	8010 ug/L	1	1	9.1	9.3	112	125	75-125	1	20	
Manganese	mg/L	81.3 ug/L	1	1	1.1	1.1	101	103	75-125	1	20	
Potassium	mg/L	2870 ug/L	1	1	3.9	4.0	104	111	75-125	2	20	
Sodium	mg/L	9260 ug/L	1	1	10.4	10.5	111	121	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 703475 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3671195 Matrix: Water
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	06/14/22 19:31	
Arsenic	mg/L	0.0031J	0.0050	0.0022	06/14/22 19:31	
Barium	mg/L	ND	0.0050	0.00067	06/14/22 19:31	
Beryllium	mg/L	ND	0.00050	0.000054	06/14/22 19:31	
Boron	mg/L	ND	0.040	0.0086	06/14/22 19:31	
Cadmium	mg/L	ND	0.00050	0.00011	06/14/22 19:31	
Chromium	mg/L	ND	0.0050	0.0011	06/15/22 14:04	
Cobalt	mg/L	ND	0.0050	0.00039	06/15/22 14:04	
Lead	mg/L	ND	0.0010	0.00089	06/14/22 19:31	
Lithium	mg/L	ND	0.030	0.00073	06/14/22 19:31	
Molybdenum	mg/L	ND	0.010	0.00074	06/14/22 19:31	
Selenium	mg/L	ND	0.0050	0.0014	06/14/22 19:31	
Thallium	mg/L	ND	0.0010	0.00018	06/14/22 19:31	

LABORATORY CONTROL SAMPLE: 3671196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.11	109	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	0.93	93	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671197 3671198

Parameter	Units	92608455001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	109	108	75-125	1	20	
Arsenic	mg/L	21.7 ug/L	0.1	0.1	0.12	0.12	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Parameter	Units	3671197		3671198		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608455001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	365 ug/L	0.1	0.1	0.43	0.44	68	75	75-125	2	20	M1	
Beryllium	mg/L	ND	0.1	0.1	0.087	0.090	87	90	75-125	3	20		
Boron	mg/L	ND	1	1	0.90	0.93	89	92	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20		
Cobalt	mg/L	40.2 ug/L	0.1	0.1	0.13	0.13	90	93	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Lithium	mg/L	186 ug/L	0.1	0.1	0.26	0.28	78	90	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 704902 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92608499006

METHOD BLANK: 3678021 Matrix: Water
Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	06/16/22 17:47	
Arsenic	mg/L	0.0036J	0.0050	0.0022	06/16/22 17:47	
Barium	mg/L	ND	0.0050	0.00067	06/16/22 17:47	
Beryllium	mg/L	ND	0.00050	0.000054	06/16/22 17:47	
Boron	mg/L	0.0090J	0.040	0.0086	06/16/22 17:47	
Cadmium	mg/L	ND	0.00050	0.00011	06/16/22 17:47	
Chromium	mg/L	ND	0.0050	0.0011	06/16/22 17:47	
Cobalt	mg/L	ND	0.0050	0.00039	06/16/22 17:47	
Lead	mg/L	ND	0.0010	0.00089	06/16/22 17:47	
Lithium	mg/L	ND	0.030	0.00073	06/16/22 17:47	
Molybdenum	mg/L	ND	0.010	0.00074	06/16/22 17:47	
Selenium	mg/L	ND	0.0050	0.0014	06/16/22 17:47	
Thallium	mg/L	ND	0.0010	0.00018	06/16/22 17:47	

LABORATORY CONTROL SAMPLE: 3678022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678023 3678024

Parameter	Units	92607331013 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	3	20	
Arsenic	mg/L	7.3 ug/L	0.1	0.1	0.11	0.11	101	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Parameter	Units	92607331013		3678023		3678024		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	23.7 ug/L	0.1	0.1	0.13	0.12	103	101	75-125	2	20			
Beryllium	mg/L	ND	0.1	0.1	0.096	0.092	95	92	75-125	4	20			
Boron	mg/L	ND	1	1	1.0	0.96	96	92	75-125	4	20			
Cadmium	mg/L	1.0 ug/L	0.1	0.1	0.10	0.098	99	97	75-125	2	20			
Chromium	mg/L	7.8 ug/L	0.1	0.1	0.11	0.11	105	104	75-125	1	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20			
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	96	75-125	2	20			
Lithium	mg/L	ND	0.1	0.1	0.097	0.095	94	91	75-125	3	20			
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20			
Selenium	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	1	20			
Thallium	mg/L	ND	0.1	0.1	0.10	0.098	100	97	75-125	2	20			

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 705643 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005, 92608499006

METHOD BLANK: 3681813 Matrix: Water
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005, 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	06/21/22 08:44	

LABORATORY CONTROL SAMPLE: 3681814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681815 3681816

Parameter	Units	3681815		3681816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.54 ug/L	0.0025	0.0025	0.0028	0.0028	90	89	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 703445 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3670973 Matrix: Water
Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/10/22 15:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/10/22 15:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/10/22 15:57	

LABORATORY CONTROL SAMPLE: 3670974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

LABORATORY CONTROL SAMPLE: 3670975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670976 3670977

Parameter	Units	92608636004		3670976		3670977		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Alkalinity, Total as CaCO3	mg/L	104	50	50	153	156	99	104	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670978 3670979

Parameter	Units	92608443007		3670978		3670979		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Alkalinity, Total as CaCO3	mg/L	271	50	50	282	270	22	-1	80-120	4	25 M1	

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 704687 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499006

METHOD BLANK: 3677119 Matrix: Water
Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/16/22 10:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/16/22 10:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/16/22 10:22	

LABORATORY CONTROL SAMPLE: 3677120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

LABORATORY CONTROL SAMPLE: 3677121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677122 3677123

Parameter	Units	3677122		3677123		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92608869021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	118	50	50	168	166	101	98	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677124 3677125

Parameter	Units	3677124		3677125		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92609055032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	58.7	50	50	115	115	112	112	80-120	0	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch:	703670	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3672024

Matrix: Water

Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/10/22 15:25	

LABORATORY CONTROL SAMPLE: 3672025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 3672026

Parameter	Units	92608690001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	39.0	48.0	21	25	

SAMPLE DUPLICATE: 3672027

Parameter	Units	92608443007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	724	724	0	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 704499

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499006

METHOD BLANK: 3676294

Matrix: Water

Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/15/22 15:21	

LABORATORY CONTROL SAMPLE: 3676295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 3676296

Parameter	Units	92608499006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	602	596	1	25	

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 703503 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004

METHOD BLANK: 3671431 Matrix: Water
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/12/22 17:35	
Fluoride	mg/L	ND	0.10	0.050	06/12/22 17:35	
Sulfate	mg/L	ND	1.0	0.50	06/12/22 17:35	

LABORATORY CONTROL SAMPLE: 3671432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671433 3671434

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608242001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	20.8	50	50	71.3	71.4	101	101	90-110	0	10		
Fluoride	mg/L	9.1	2.5	2.5	9.7	9.9	22	29	90-110	2	10	M1	
Sulfate	mg/L	617	50	50	623	643	13	53	90-110	3	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671435 3671436

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608298001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	10.0	50	50	60.4	61.0	101	102	90-110	1	10		
Fluoride	mg/L	0.14	2.5	2.5	2.5	2.6	95	97	90-110	2	10		
Sulfate	mg/L	12.0	50	50	62.0	62.5	100	101	90-110	1	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 703506 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499005

METHOD BLANK: 3671443 Matrix: Water
Associated Lab Samples: 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/13/22 01:33	
Fluoride	mg/L	ND	0.10	0.050	06/13/22 01:33	
Sulfate	mg/L	ND	1.0	0.50	06/13/22 01:33	

LABORATORY CONTROL SAMPLE: 3671444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.7	107	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671445 3671446

Parameter	Units	92608499005		3671446		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	ND	50	50	50.6	51.1	101	102	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	92	92	90-110	0	10		
Sulfate	mg/L	ND	50	50	50.0	50.5	100	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671447 3671448

Parameter	Units	92608422005		3671448		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	84.5	50	50	126	125	82	81	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	1	10		
Sulfate	mg/L	ND	50	50	50.9	51.1	101	101	90-110	0	10		

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

QC Batch: 704146 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499006

METHOD BLANK: 3674655 Matrix: Water
Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/14/22 07:09	
Fluoride	mg/L	ND	0.10	0.050	06/14/22 07:09	
Sulfate	mg/L	ND	1.0	0.50	06/14/22 07:09	

LABORATORY CONTROL SAMPLE: 3674656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	54.1	108	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674657 3674658

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608869024 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	7260	50	50	7230	7340	-53	157	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	5.7J	5.5J	32	24	90-110		10	D3,M1	
Sulfate	mg/L	950	50	50	977	990	55	80	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674766 3674767

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608137004 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	13.8	50	50	65.3	65.6	103	103	90-110	0	10		
Fluoride	mg/L	0.15	2.5	2.5	2.6	2.7	100	101	90-110	1	10		
Sulfate	mg/L	11.6	50	50	62.5	63.0	102	103	90-110	1	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH BACKGROUND
Pace Project No.: 92608499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92608499001	DGWC-121				
92608499002	B-122D				
92608499006	B-123D				
92608499001	DGWC-121	EPA 3010A	703611	EPA 6010D	703726
92608499002	B-122D	EPA 3010A	703611	EPA 6010D	703726
92608499003	DUP-1	EPA 3010A	703611	EPA 6010D	703726
92608499004	FB-1	EPA 3010A	703611	EPA 6010D	703726
92608499005	EB-1	EPA 3010A	703611	EPA 6010D	703726
92608499006	B-123D	EPA 3010A	704300	EPA 6010D	704368
92608499001	DGWC-121	EPA 3005A	703475	EPA 6020B	703757
92608499002	B-122D	EPA 3005A	703475	EPA 6020B	703757
92608499003	DUP-1	EPA 3005A	703475	EPA 6020B	703757
92608499004	FB-1	EPA 3005A	703475	EPA 6020B	703757
92608499005	EB-1	EPA 3005A	703475	EPA 6020B	703757
92608499006	B-123D	EPA 3005A	704902	EPA 6020B	705008
92608499001	DGWC-121	EPA 7470A	705643	EPA 7470A	705689
92608499002	B-122D	EPA 7470A	705643	EPA 7470A	705689
92608499003	DUP-1	EPA 7470A	705643	EPA 7470A	705689
92608499004	FB-1	EPA 7470A	705643	EPA 7470A	705689
92608499005	EB-1	EPA 7470A	705643	EPA 7470A	705689
92608499006	B-123D	EPA 7470A	705643	EPA 7470A	705689
92608499001	DGWC-121	SM 2320B-2011	703445		
92608499002	B-122D	SM 2320B-2011	703445		
92608499003	DUP-1	SM 2320B-2011	703445		
92608499004	FB-1	SM 2320B-2011	703445		
92608499005	EB-1	SM 2320B-2011	703445		
92608499006	B-123D	SM 2320B-2011	704687		
92608499001	DGWC-121	SM 2540C-2011	703670		
92608499002	B-122D	SM 2540C-2011	703670		
92608499003	DUP-1	SM 2540C-2011	703670		
92608499004	FB-1	SM 2540C-2011	703670		
92608499005	EB-1	SM 2540C-2011	703670		
92608499006	B-123D	SM 2540C-2011	704499		
92608499001	DGWC-121	EPA 300.0 Rev 2.1 1993	703503		
92608499002	B-122D	EPA 300.0 Rev 2.1 1993	703503		
92608499003	DUP-1	EPA 300.0 Rev 2.1 1993	703503		
92608499004	FB-1	EPA 300.0 Rev 2.1 1993	703503		
92608499005	EB-1	EPA 300.0 Rev 2.1 1993	703506		
92608499006	B-123D	EPA 300.0 Rev 2.1 1993	704146		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: SA Power

Project #: WO#: 92608499



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

Custody Seal Present? Yes NO Seals Intact? Yes No

Date/Initials Person Examining Contents: 6/8/22 RMT

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

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

Cooler Temp: 3.2 Correction Factor: Add/Subtract (°C) +0.2

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.4

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92608499

PM: NMG

Due Date: 06/22/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
2		2	1																											
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pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company Georgia Power - Coal Combustion Residuals Address 2480 Marier Road Atlanta, GA 30339
Section B Required Project Information: Report To Lauren Golder Copy To Golder
Section C Invoice Information: Attention scainovaz@southtexas.com Company Name Address
 Purchases Order # Pacs Order #
 Project Name Pacs Project Manager Nicole D Olec
 Requested Due Date: Project # 166349621 Pacs Profile #

Page: 1 of 1

Regulatory Agency:
State / Location: GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test					Residual Chlorine (Y/N)	PH		
								# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Metals	Cl, F, SO4	TDS			RAD 9315/9320	Alkalinity
1	DGWC-121	WT	G	G	6/6/2022	11:59		6	3	3							X	X	X	X	X		PH = 6.33
2	B-122D	WT	G	G	6/6/2022	11:30		6	3	3							X	X	X	X	X		PH = 6.02
3	Dup-1	WT	G	G	6/6/2022			6	3	3							X	X	X	X	X		
4	FB-1	WT	G	G	6/7/2022	16:35		6	3	3							X	X	X	X	X		
6	EB-1	WT	G	G	6/6/2022	12:00		6	3	3							X	X	X	X	X		

ADDITIONAL COMMENTS: Relinquished by / Affiliation: Pacs / Date: 6-8-22 / Time: 16:55
 Accepted by / Affiliation: JOE MARTINEZ / Date: 6-8-22 / Time: 10:35

TEMP in C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

DATE Signed: 6-8-22



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *RE 10/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.2

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)				
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BPIN

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road
 Atlanta, GA 30339
 Email: lauckner@southernco.com
 Phone: (470) 506-7239
 Requested Due Date: _____

Section B Required Project Information:
 Report To: Lauren Coker
 Copy To: Golder
 Project Name: Plant McDonough Background
 Wall Sampling
 Project #: 16648921

Section C Invoice Information:
 Attention: scainvesz@southernco.com
 Address: _____
 Company Name: _____
 Paza Guide: _____
 Paza Project Manager: Nicole D'Olivo
 Paza Profile #: _____

Page: 1 Of 1

ITEM #	MATRIX	CODE	WT	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives							Requested Analysis Filled (Y/N)	Residual Chlorine (Y/N)	pH - 8.48
								Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol			
	Matrix Code	SW WW P SL CL WP WR OT TS															
1	B-123D		G		6/10/22	17:18											
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

ADDITIONAL COMMENTS: JUDE MAGUIRES PARK

RELINQUISHED BY / AFFILIATION: J.M. / Golder

DATE: 6/10/22

TIME: 15:12

ACCEPTED BY / AFFILIATION: Charles Hester

DATE: 6/10/22

TIME: 13:02

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

DATE Signed: 6/10/22

July 25, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCDONOUGH BACKGROUND RAD
Pace Project No.: 92608485

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between June 08, 2022 and June 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Stephen Benda, Southern Company
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH BACKGROUND RAD
Pace Project No.: 92608485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92608485001	DGWC-121	Water	06/06/22 11:59	06/08/22 10:35
92608485002	B-122D	Water	06/06/22 11:30	06/08/22 10:35
92608485003	DUP-1	Water	06/06/22 00:00	06/08/22 10:35
92608485004	FB-1	Water	06/07/22 16:35	06/08/22 10:35
92608485005	EB-1	Water	06/06/22 12:00	06/08/22 10:35
92608485006	B-123D	Water	06/09/22 17:18	06/10/22 13:12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92608485001	DGWC-121	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485002	B-122D	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485003	DUP-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485004	FB-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485005	EB-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485006	B-123D	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-121 Lab ID: 92608485001 Collected: 06/06/22 11:59 Received: 06/08/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000U ± 0.247 (0.554) C:NA T:90%	pCi/L	07/15/22 16:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.23 ± 0.503 (0.775) C:65% T:90%	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.23 ± 0.560 (0.775)	pCi/L	07/19/22 12:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Sample: B-122D **Lab ID: 92608485002** Collected: 06/06/22 11:30 Received: 06/08/22 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	2.29 ± 0.827 (0.733) C:NA T:83%	pCi/L	07/15/22 16:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	10.8 ± 2.22 (0.880) C:59% T:83%	pCi/L	07/08/22 13:01	15262-20-1	B0
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	13.1 ± 2.37 (0.880)	pCi/L	07/19/22 12:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Sample: DUP-1 **Lab ID: 92608485003** Collected: 06/06/22 00:00 Received: 06/08/22 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.298U ± 0.366 (0.597) C:NA T:91%	pCi/L	07/15/22 16:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.809U ± 0.469 (0.854) C:60% T:91%	pCi/L	07/08/22 13:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11 ± 0.595 (0.854)	pCi/L	07/19/22 12:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Sample: FB-1 **Lab ID: 92608485004** Collected: 06/07/22 16:35 Received: 06/08/22 10:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000U ± 0.264 (0.593) C:NA T:95%	pCi/L	07/15/22 16:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.26 ± 0.579 (0.974) C:55% T:95%	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.26 ± 0.636 (0.974)	pCi/L	07/19/22 12:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-1 Lab ID: 92608485005 Collected: 06/06/22 12:00 Received: 06/08/22 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.143U ± 0.218 (0.351) C:NA T:93%	pCi/L	07/15/22 16:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.14 ± 0.594 (1.04) C:53% T:93%	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.28 ± 0.633 (1.04)	pCi/L	07/19/22 12:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Sample: B-123D **Lab ID: 92608485006** Collected: 06/09/22 17:18 Received: 06/10/22 13:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.112U ± 0.346 (0.671) C:NA T:90%	pCi/L	07/15/22 16:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.97 ± 0.695 (0.975) C:53% T:90%	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.08 ± 0.776 (0.975)	pCi/L	07/19/22 12:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

QC Batch:	513178	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

METHOD BLANK: 2487394 Matrix: Water

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	1.66 ± 0.530 (0.650) C:65% T:91%	pCi/L	07/08/22 12:40	B0

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

QC Batch: 513176

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

METHOD BLANK: 2487389

Matrix: Water

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0531 ± 0.242 (0.493) C:NA T:91%	pCi/L	07/15/22 16:17	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B0 Analyte was detected in an associated blank at a concentration greater than the MDL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92608485001	DGWC-121	EPA 903.1	513176		
92608485002	B-122D	EPA 903.1	513176		
92608485003	DUP-1	EPA 903.1	513176		
92608485004	FB-1	EPA 903.1	513176		
92608485005	EB-1	EPA 903.1	513176		
92608485006	B-123D	EPA 903.1	513176		
92608485001	DGWC-121	EPA 904.0	513178		
92608485002	B-122D	EPA 904.0	513178		
92608485003	DUP-1	EPA 904.0	513178		
92608485004	FB-1	EPA 904.0	513178		
92608485005	EB-1	EPA 904.0	513178		
92608485006	B-123D	EPA 904.0	513178		
92608485001	DGWC-121	Total Radium Calculation	519695		
92608485002	B-122D	Total Radium Calculation	519695		
92608485003	DUP-1	Total Radium Calculation	519695		
92608485004	FB-1	Total Radium Calculation	519695		
92608485005	EB-1	Total Radium Calculation	519695		
92608485006	B-123D	Total Radium Calculation	519695		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

SA Power

Project #:

WO#: 92608485

Courier:

Commercial

Fed Ex

Pace

UPS

USPS

Other: _____

Client



Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: 6/8/22

RBH

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Frozen?

Yes

No

N/A

Thermometer:

IR Gun ID:

083

Type of Ice:

Wet

Blue

None

Cooler Temp:

3.2

Correction Factor:

Add/Subtract (°C)

+0.2

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.4

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

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

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

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92608485

PM: NMG

Due Date: 06/29/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
2		2	1																											
3		2	1																											
4		2	1																											
5		2	1																											
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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

Fac Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road, Atlanta GA 30339
Phone: (470) 506-7239
Fax: (470) 506-7239
Requested Due Date: 1/6/2022

Section B
Required Project Information:

Report To: Lauren Coker
Copy To: Golder
Project Name: Plant McDonough Background Well Sampling
Project #: 166849621

Section C
Invoice Information

Attention: scainovic@southern.com
Company Name: scainovic@southern.com
Address: 166849621
Purchase Order #: 166849621
Purchasing Manager: Nicole D. Ohio
Requested Analysis Filtered (Y/N):
GA

Section D
Regulatory Agency

Regulatory Agency: [Blank]
State / Location: GA

Page: 1 Of 1

Requested Analysis Filtered (Y/N)

MATRIX CODE (See valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)
DATE TIME
SAMPLE TEMP AT COLLECTION
OF CONTAINERS
Preservatives: H2SO4, HNO3 + Ice, HCl, NaOH + Zn Acetate, Na2S2O3, Methanol, Other
Analyses Test: Metals, Cl, F, SO4, TDS, RAD 9315/9320, Alkalinity

ITEM # 1 2 3 4 5 6 7 8 9 10 11 12 13 14

DGWC-121
B-1220
Dup-1
FB-1
EB-1

MATRIX: DM, WT, P, SL, WP, AP, OT, TS
Code: DM, WT, P, SL, WP, AP, OT, TS

MATRIX CODE: WT, G, G, G, LM
SAMPLE TYPE: G, G, G, G, G

DATE TIME: 6/6/2022 11:59, 6/6/2022 11:30, 6/6/2022 ---, 6/7/2022 16:35, 6/6/2022 12:00

SAMPLE TEMP AT COLLECTION: [Blank]

OF CONTAINERS: 6, 3, 3, 3, 3

Preservatives: [Blank]

Analyses Test: Metals (X), Cl, F, SO4 (X), TDS (X), RAD 9315/9320 (X), Alkalinity (X)

Residual Chlorine (Y/N): [Blank]

ADDITIONAL COMMENTS: 70001 W-0646 6-8-22 16:55 JOANNA ZOFER/CLB 1035

RELINQUISHED BY / AFFILIATION: [Blank]
DATE: 6-8-22
TIME: 16:55

ACCEPTED BY / AFFILIATION: JOANNA ZOFER/CLB
DATE: [Blank]
TIME: 1035

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]
Custody Sealed Cooler (Y/N): [Blank]
Samples Intact (Y/N): [Blank]

Signature: [Handwritten Signature] DATE Signed: 6-8-22

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *JRE 10/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.2

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Naz2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																												2
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

BPIN

pH Adjustment Log for Preserved Samples

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

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

Facility

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Georgia Power - Coal Combustion Residuals	Report To: Laurin Cooker	Attention: zcmolcas@southemco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name
Arlanta, GA 30339		Address
Email: jgucoker@southemco.com	Purchase Order #:	Price Quote
Phone: (478) 506-2339	Project Name: Plant McDonough Background	Price Project Manager: Nicole D'Ono
	Well Sampling	Price Profile #
Requested Due Date:	Project #: 16643521	

Page : 1 Of 1

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test					Residual Chlorine (Y/N)	PH - 6.46				
								# OF CONTAINERS	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Metals	Cl, F, SO4	TDS	RAD 9315/9320			Alkalinity			
1	B-123D			G	8/8/2022	17:18		6	3	3							X	X	X	X					
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									

ADDITIONAL COMMENTS

REMOVED BY / AFFILIATION: JUDGE MAGUIRES PAK / J.M. Samples 6/10/22 1312

ACCEPTED BY / AFFILIATION: Charles Apple / C.A. Apple 6/10/22 1302

DATE Signed: 6/10/22

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 6/30/2022
Batch ID: 67363
Matrix: DW

Method Blank Assessment	
MB Sample ID	2487389
MB Concentration:	-0.053
MB Counting Uncertainty:	0.180
MB MDC:	0.493
MB Numerical Performance Indicator:	-0.58
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD67363	LCSD67363
Count Date:	7/15/2022	7/15/2022
Spike I.D.:	21-031	21-031
Spike Concentration (pCi/mL):	39.889	39.889
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.804
Target Conc. (pCi/L, g, F):	4.887	4.964
Uncertainty (Calculated):	0.230	0.233
Result (pCi/L, g, F):	4.003	4.724
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.827	0.960
Numerical Performance Indicator:	-2.02	-0.48
Percent Recovery:	81.91%	95.17%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	73%	73%

Duplicate Sample Assessment	
Sample I.D.:	LCSD67363
Duplicate Sample I.D.:	LCSD67363
Sample Result (pCi/L, g, F):	4.003
Duplicate Result (pCi/L, g, F):	0.827
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.724
Duplicate Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.960
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.115
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	14.98%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	32%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

Amey
GPH
7/15/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 7/1/2022
Worklist: 67364
Matrix: WI

Method Blank Assessment

MB Sample ID: 2487394
MB concentration: 1.658
MB 2 Sigma CSU: 0.530
MB MDC: 0.650

MB Numerical Performance Indicator: 6.13
MB Status vs Numerical Indicator: Fail*
MB Status vs. MDC: Fail*

Laboratory Control Sample Assessment	LCSID (Y or N)?	
	LCS67364	LCS67364
Count Date:	7/8/2022	7/8/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.112	35.112
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.804	0.804
Target Conc. (pCi/L, g, F):	4.369	4.369
Uncertainty (Calculated):	0.211	0.214
Result (pCi/L, g, F):	4.491	4.857
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.981	1.069
Numerical Performance Indicator:	0.37	0.88
Percent Recovery:	104.40%	111.17%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment

Sample I.D.: LCS67364
Duplicate Sample I.D.: LCS67364

Sample Result (pCi/L, g, F): 4.491
Sample Result 2 Sigma CSU (pCi/L, g, F): 0.981
Sample Duplicate Result (pCi/L, g, F): 4.857
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 1.069

Are sample and/or duplicate results below RL? NO

Duplicate Numerical Performance Indicator: -0.495
Duplicate Percent Recoveries: 6.29%
Duplicate Status vs Numerical Indicator: Pass
Duplicate Status vs RPD: Pass
% RPD Limit: 36%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):</p> <p>Sample Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Sample Matrix Spike Result:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
Duplicate Percent Recoveries: MS/MSD Duplicate RPD:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *if the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

Client's contacted

7/7/15/22

APPENDIX B

Data Validation Summary
September 2021

Quality Control Review of Analytical Data- Ash Pond AP-2, 3/4 Submitted by Pace Analytical Services, LLC September 2021

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Pace Analytical Services, LLC. for groundwater samples collected at Plant McDonough CCR Ash Pond AP-2, 3/4 (Site) between September 8, 2021 and September 16, 2021. 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 (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), 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 (laboratory and field 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.
Accuracy:	Laboratory goals for accuracy were met with the exception of lithium, chloride, fluoride, and sulfate as described in the qualification sections below.
Detection Limits:	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.
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, with the exception of TDS, as described in the qualification section below.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of precision or accuracy, 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; however, the concentration reported is an estimated value.
- U** The analyte was not detected above the method detection limit.

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 some data from samples collected at the site and reported in SDGs 92560136, 92560137, 92560138, 92560139, 92560765, 92560766, 92560768, 92560774, 92561190 and 92561195 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- The TDS result in sample B-56 from SDG 92560768 was qualified as estimated (J) as the sample had to be re-analyzed outside of holding time. The original TDS result was deemed un-reportable by the lab due to a suspected manufacturing error of laboratory materials.
- Certain chloride and fluoride results from SDGs 92560768 and 92560774 were qualified as estimated and biased high (J+) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were above the QC criteria.
- Certain lithium, chloride, fluoride, and sulfate results from SDGs 92560768 and 92560774 were qualified as estimated and biased low (J-) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were below the QC criteria.
- Certain radium-228, radium-226, and total radium results in SDGs 92560765 and 92560766 were qualified as non-detect (U) when either radium-226 or radium-228 was detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the (U) qualification process.
- The total radium result in SDG 92560765 was qualified estimated biased high (J+) for associated blank contaminations.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2, 3/4 between September 8, 2021 and September 16, 2021 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.

REFERENCE

Paar, J.G. & Porterfield, D.R. *Evaluation of Radiochemical Data Usability*. United States Department of Energy, Office of Environmental Restoration and Waste Management, Oak Ridge National Laboratory, April 1997.

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 McDonough**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses							
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92561195	B-100	9/13/2021	92561195001	GW	-	X	X	X	X	X	X	-	-
92561195	B-62	9/9/2021	92560768001	GW	-	X	X	X	X	X	X	-	-
92561190	B-100	9/13/2021	92561190001	GW	-	-	-	-	-	-	-	X	X
92561190	B-62	9/9/2021	92560765001	GW	-	-	-	-	-	-	-	X	X
92560138	DGWA-71	9/8/2021	92560138001	GW	-	X	X	X	X	X	X	-	-
92560138	DGWA-53	9/9/2021	92560138002	GW	-	X	X	X	X	X	X	-	-
92560138	DGWA-70A	9/9/2021	92560138003	GW	-	X	X	X	X	X	X	-	-
92560136	DGWA-71	9/8/2021	92560136001	GW	-	-	-	-	-	-	-	X	X
92560136	DGWA-53	9/9/2021	92560136002	GW	-	-	-	-	-	-	-	X	X
92560136	DGWA-70A	9/9/2021	92560136003	GW	-	-	-	-	-	-	-	X	X
92560139	B-117D	9/8/2021	92560139001	GW	-	X	X	X	X	X	X	-	-
92560139	B-118	9/8/2021	92560139002	GW	-	X	X	X	X	X	X	-	-
92560139	B-119D	9/8/2021	92560139003	GW	-	X	X	X	X	X	X	-	-
92560139	B-116D	9/9/2021	92560139004	GW	-	X	X	X	X	X	X	-	-
92560137	B-117D	9/8/2021	92560137001	GW	-	-	-	-	-	-	-	X	X
92560137	B-118	9/8/2021	92560137002	GW	-	-	-	-	-	-	-	X	X
92560137	B-119D	9/8/2021	92560137003	GW	-	-	-	-	-	-	-	X	X
92560137	B-116D	9/9/2021	92560137004	GW	-	-	-	-	-	-	-	X	X
92560768	B-102D	9/10/2021	92560768002	GW	-	X	X	X	X	X	X	-	-
92560768	B-109D	9/10/2021	92560768003	GW	-	X	X	X	X	X	X	-	-
92560768	EB-3	9/10/2021	92560768004	WQ	EB (B-109D)	X	X	X	X	X	X	-	-
92560768	B-56	9/13/2021	92560768005	GW	-	X	X	X	X	X	X	-	-
92560768	B-88	9/13/2021	92560768006	GW	-	X	X	X	X	X	X	-	-
92560768	B-101D	9/13/2021	92560768007	GW	-	X	X	X	X	X	X	-	-
92560768	B-106D	9/13/2021	92560768008	GW	-	X	X	X	X	X	X	-	-
92560768	B-107D	9/13/2021	92560768009	GW	-	X	X	X	X	X	X	-	-
92560768	FB-3	9/13/2021	92560768010	WQ	FB (B-101D)	X	X	X	X	X	X	-	-
92560768	DUP-3	9/13/2021	92560768011	GW	FD (B-106D)	X	X	X	X	X	X	-	-
92560768	B-63	9/14/2021	92560768012	GW	-	X	X	X	X	X	X	-	-
92560768	B-66	9/14/2021	92560768013	GW	-	X	X	X	X	X	X	-	-
92560768	B-77	9/14/2021	92560768014	GW	-	X	X	X	X	X	X	-	-
92560768	B-82	9/14/2021	92560768015	GW	-	X	X	X	X	X	X	-	-
92560768	B-104D	9/14/2021	92560768016	GW	-	X	X	X	X	X	X	-	-
92560768	B-108D	9/14/2021	92560768017	GW	-	X	X	X	X	X	X	-	-
92560768	B-111D	9/14/2021	92560768018	GW	-	X	X	X	X	X	X	-	-
92560768	B-115D	9/14/2021	92560768019	GW	-	X	X	X	X	X	X	-	-
92560768	B-120D	9/14/2021	92560768020	GW	-	X	X	X	X	X	X	-	-
92560768	DUP-4	9/14/2021	92560768021	GW	FD (B-66)	X	X	X	X	X	X	-	-
92560768	EB-4	9/14/2021	92560768022	WQ	EB (111D)	X	X	X	X	X	X	-	-
92560768	B-92	9/15/2021	92560768023	GW	-	X	X	X	X	X	X	-	-
92560768	B-93	9/15/2021	92560768024	GW	-	X	X	X	X	X	X	-	-
92560768	B-97	9/15/2021	92560768025	GW	-	X	X	X	X	X	X	-	-
92560768	B-98	9/15/2021	92560768026	GW	-	X	X	X	X	X	X	-	-
92560768	DUP-5	9/15/2021	92560768027	GW	FD (B-93)	X	X	X	X	X	X	-	-
92560768	FB-5	9/15/2021	92560768028	WQ	FB (B-97)	X	X	X	X	X	X	-	-
92560768	EB-5	9/15/2021	92560768029	WQ	EB (B-98)	X	X	X	X	X	X	-	-
92560768	B-83	9/16/2021	92560768030	GW	-	X	X	X	X	X	X	-	-
92560768	FB-6	9/16/2021	92560768031	WQ	FB (B-83)	X	X	X	X	X	X	-	-
92560765	B-102D	9/10/2021	92560765002	GW	-	-	-	-	-	-	-	X	X

TABLE 1

**Sample Summary Table
SCS Plant McDonough**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses							
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92560765	B-109D	9/10/2021	92560765003	GW	-	-	-	-	-	-	-	X	X
92560765	EB-3	9/10/2021	92560765004	WQ	EB (B-109D)	-	-	-	-	-	-	X	X
92560765	B-56	9/13/2021	92560765005	GW	-	-	-	-	-	-	-	X	X
92560765	B-88	9/13/2021	92560765006	GW	-	-	-	-	-	-	-	X	X
92560765	B-101D	9/13/2021	92560765007	GW	-	-	-	-	-	-	-	X	X
92560765	B-106D	9/13/2021	92560765008	GW	-	-	-	-	-	-	-	X	X
92560765	B-107D	9/13/2021	92560765009	GW	-	-	-	-	-	-	-	X	X
92560765	FB-3	9/13/2021	92560765010	WQ	FB (B-101D)	-	-	-	-	-	-	X	X
92560765	DUP-3	9/13/2021	92560765011	GW	FD (B-106D)	-	-	-	-	-	-	X	X
92560765	B-63	9/14/2021	92560765012	GW	-	-	-	-	-	-	-	X	X
92560765	B-66	9/14/2021	92560765013	GW	-	-	-	-	-	-	-	X	X
92560765	B-77	9/14/2021	92560765014	GW	-	-	-	-	-	-	-	X	X
92560765	B-82	9/14/2021	92560765015	GW	-	-	-	-	-	-	-	X	X
92560765	B-104D	9/14/2021	92560765016	GW	-	-	-	-	-	-	-	X	X
92560765	B-108D	9/14/2021	92560765017	GW	-	-	-	-	-	-	-	X	X
92560765	B-111D	9/14/2021	92560765018	GW	-	-	-	-	-	-	-	X	X
92560765	B-115D	9/14/2021	92560765019	GW	-	-	-	-	-	-	-	X	X
92560765	B-120D	9/14/2021	92560765020	GW	-	-	-	-	-	-	-	X	X
92560765	DUP-4	9/14/2021	92560765021	GW	FD (B-66)	-	-	-	-	-	-	X	X
92560765	EB-4	9/14/2021	92560765022	WQ	EB (B-111D)	-	-	-	-	-	-	X	X
92560765	B-92	9/15/2021	92560765023	GW	-	-	-	-	-	-	-	X	X
92560765	B-93	9/15/2021	92560765024	GW	-	-	-	-	-	-	-	X	X
92560765	B-97	9/15/2021	92560765025	GW	-	-	-	-	-	-	-	X	X
92560765	B-98	9/15/2021	92560765026	GW	-	-	-	-	-	-	-	X	X
92560765	DUP-5	9/15/2021	92560765027	GW	FD (B-93)	-	-	-	-	-	-	X	X
92560765	FB-5	9/15/2021	92560765028	WQ	FB (B-97)	-	-	-	-	-	-	X	X
92560765	EB-5	9/15/2021	92560765029	WQ	EB (B-98)	-	-	-	-	-	-	X	X
92560765	B-83	9/16/2021	92560765030	GW	-	-	-	-	-	-	-	X	X
92560765	FB-6	9/16/2021	92560765031	WQ	FB (B-83)	-	-	-	-	-	-	X	X
92560774	DGWC-2	9/9/2021	92560774001	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-11	9/9/2021	92560774002	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-12	9/9/2021	92560774003	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-13	9/9/2021	92560774004	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-14	9/9/2021	92560774005	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-15	9/9/2021	92560774006	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-19	9/9/2021	92560774007	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-21	9/9/2021	92560774008	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-23	9/9/2021	92560774009	GW	-	X	X	X	X	X	X	-	-
92560774	EB-1	9/9/2021	92560774010	WQ	EB (DGWC-14)	X	X	X	X	X	X	-	-
92560774	FB-1	9/9/2021	92560774011	WQ	FB (DGWC-15)	X	X	X	X	X	X	-	-
92560774	DGWC-4	9/10/2021	92560774012	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-5	9/10/2021	92560774013	GW	-	X	X	X	X	X	X	-	-
92560774	DUP-2	9/10/2021	92560774014	GW	FD (DGWC-4)	X	X	X	X	X	X	-	-
92560774	DGWC-9	9/10/2021	92560774015	GW	-	X	X	X	X	X	X	-	-
92560774	FB-2	9/10/2021	92560774016	GW	FB (DGWC-9)	X	X	X	X	X	X	-	-
92560774	DGWC-10	9/10/2021	92560774017	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-20	9/10/2021	92560774018	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-22	9/10/2021	92560774019	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-47	9/10/2021	92560774020	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-48	9/10/2021	92560774021	GW	-	X	X	X	X	X	X	-	-
92560774	DUP-1	9/10/2021	92560774022	GW	FD (DGWC-48)	X	X	X	X	X	X	-	-
92560774	EB-2	9/10/2021	92560774023	GW	EB (DGWC-47)	X	X	X	X	X	X	-	-
92560774	DGWC-8	9/13/2021	92560774024	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-17	9/13/2021	92560774025	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-42	9/13/2021	92560774026	GW	-	X	X	X	X	X	X	-	-
92560766	DGWC-2	9/9/2021	92560766001	GW	-	-	-	-	-	-	-	X	X

TABLE 1
Sample Summary Table
SCS Plant McDonough

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses							
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92560766	DGWC-11	9/9/2021	92560766002	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-12	9/9/2021	92560766003	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-13	9/9/2021	92560766004	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-14	9/9/2021	92560766005	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-15	9/9/2021	92560766006	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-19	9/9/2021	92560766007	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-21	9/9/2021	92560766008	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-23	9/9/2021	92560766009	GW	-	-	-	-	-	-	-	X	X
92560766	EB-1	9/9/2021	92560766010	WQ	EB (DGWC-14)	-	-	-	-	-	-	X	X
92560766	FB-1	9/9/2021	92560766011	WQ	FB (DGWC-15)	-	-	-	-	-	-	X	X
92560766	DGWC-4	9/10/2021	92560766012	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-5	9/10/2021	92560766013	GW	-	-	-	-	-	-	-	X	X
92560766	DUP-2	9/10/2021	92560766014	GW	FD (DGWC-4)	-	-	-	-	-	-	X	X
92560766	DGWC-9	9/10/2021	92560766015	GW	-	-	-	-	-	-	-	X	X
92560766	FB-2	9/10/2021	92560766016	WQ	FB (DGWC-9)	-	-	-	-	-	-	X	X
92560766	DGWC-10	9/10/2021	92560766017	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-20	9/10/2021	92560766018	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-22	9/10/2021	92560766019	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-47	9/10/2021	92560766020	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-48	9/10/2021	92560766021	GW	-	-	-	-	-	-	-	X	X
92560766	DUP-1	9/10/2021	92560766022	GW	FD (DGWC-48)	-	-	-	-	-	-	X	X
92560766	EB-2	9/10/2021	92560766023	WQ	EB (DGWC-47)	-	-	-	-	-	-	X	X
92560766	DGWC-8	9/13/2021	92560766024	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-17	9/13/2021	92560766025	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-42	9/13/2021	92560766026	GW	-	-	-	-	-	-	-	X	X

Abbreviations:

- SDG- Sample Delivery Group
- QC - Quality Control
- SM - Standard Method
- SW - Solid Waste
- GW - Groundwater
- TDS - Total dissolved solids

TABLE 2
Qualifier Summary Table
SCS Plant McDonough

SDG	Sample Name	Constituent	New Result	New RL or MDC	Qualifier	Reason
92560768	B-56	TDS	-	-	J	Analysis run out of holding time
92560768	B-115D	Lithium	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-109D	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-109D	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-109D	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-101D	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-63	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-63	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-63	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-98	Chloride	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-98	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560765	B-120D	Radium-228	-	2.51	U	Method blank detection
92560765	B-120D	Total Radium	-	-	J+	Method blank detection
92560765	B-101D	Radium-228	-	1.47	U	Field blank detection
92560765	B-101D	Total Radium	-	1.8	U	Field blank detection
92560774	DGWC-23	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92560774	DGWC-23	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560774	DGWC-47	Fluoride	-	-	J-	MS/MSD outside acceptance criteria
92560774	DGWC-48	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560766	DGWC-14	Radium-226	-	0.502	U	Equipment Blank detection

Abbreviations:

RL : Reporting limit

MDC : Minimum detectable concentration

SDG : Sample delivery group

Qualifier

U: Non-detect

J+: estimated, bias high

J-: estimated, bias low

APPENDIX B

Data Validation Summary
January 2022

Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4 Submitted by Pace Analytical Services, LLC January and June 2022

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Pace Analytical Services, LLC. for groundwater samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 (Site) between January 18, 2022 and June 9, 2022. 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. Groundwater samples were also analyzed for alkalinity. Test methods included Inductively Coupled Plasma- Mass Spectrometry (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315) and Radium-228 (USEPA Method 9320). Additional surface water samples were collected and analyzed for USEPA Method 6020B, 6010D, 300.0, TDS, Standard Methods 4500-CO2 Carbon Dioxide (Bicarbonate Alkalinity) and Alkalinity by Titration through Standard Method 2320B (SM2320B).

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 (laboratory and field 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, with the exception of fluoride.
Field Precision:	Field goals for precision were met.
Accuracy:	Laboratory goals for accuracy were met with the exception of chloride, fluoride, sulfate, and alkalinity as described in the qualification sections below.
Detection Limits:	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.

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 precision or accuracy, 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; however, the concentration reported is an estimated value.

- U** The analyte was not detected above the method detection limit.

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 some data from samples collected at the site and reported in SDGs 92583500, 92583576, 92583585, 92583603, 92583950, 92583951, 92583952, 92583953, 92583955, 92583957, 92584543, 92584718, and 92608499 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain chloride, fluoride, and sulfate results from SDGs 92583603, 92583953, 92583585 and 92583957 were qualified as estimated and biased high (J+) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were above the QC criteria.
- Certain alkalinity and sulfate results from SDGs 92583955, 92583953 and 92583957 were qualified as estimated and biased low (J-) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were below the QC criteria.
- Certain antimony and arsenic results in SDG 92583955 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 results were raised to the RL.
- Fluoride in sample DGWC-2, from SDGs 92583953, was qualified as estimated non-detect value (UJ) as the associated matrix spike recovered outside acceptance criteria and the RPD recovered above the QC criteria.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between January 18, 2022 and June 9, 2022 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.

REFERENCE

Paar, J.G. & Porterfield, D.R. *Evaluation of Radiochemical Data Usability*. United States Department of Energy, Office of Environmental Restoration and Waste Management, Oak Ridge National Laboratory, April 1997.

US EPA, November 2020, National Functional Guidelines for Inorganic Superfund Methods Data Review, Office of Superfund Remediation and Technology Innovation. OLEM 9240.0-51 [EPA 540-R-20-005]. Washington. DC, November 2020.

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 McDonough Ash Pond 2 and 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses									
						Field pH	Total Metals (SW 6020B)	Metals (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Bicarbonate Alkalinity (SM4500-CO2-D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92583603	DGWA-70A	1/18/2022	92583603001	WG	-	X	X	X	X	X	X	X	-	-	-
92583603	DGWA-71	1/18/2022	92583603002	WG	-	X	X	X	X	X	X	X	-	-	-
92583603	DGWA-53	1/28/2022	92583603003	WG	-	X	X	X	X	X	X	X	-	-	-
92583500	DGWA-70A	1/18/2022	92583500001	WG	-	-	-	-	-	-	-	-	-	X	X
92583500	DGWA-71	1/18/2022	92583500002	WG	-	-	-	-	-	-	-	-	-	X	X
92583500	DGWA-53	1/28/2022	92583500003	WG	-	-	-	-	-	-	-	-	-	X	X
92583953	DGWC-2	1/20/2022	92583953001	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-21	1/20/2022	92583953002	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-22	1/20/2022	92583953003	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-23	1/20/2022	92583953004	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-42	1/20/2022	92583953005	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-1	1/20/2022	92583953006	WQ	FB (DGWC-22)	-	X	X	X	X	X	X	-	-	-
92583953	FB-2	1/20/2022	92583953007	WQ	FB (DGWC-42)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-20	1/21/2022	92583953008	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-47	1/21/2022	92583953009	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-3	1/21/2022	92583953010	WQ	FB (DGWC-20)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-4	1/24/2022	92583953011	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-5	1/24/2022	92583953012	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-15	1/24/2022	92583953013	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-17	1/24/2022	92583953014	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-48	1/24/2022	92583953015	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	EB-4	1/24/2022	92583953016	WQ	EB (DGWC-4)	-	X	X	X	X	X	X	-	-	-
92583953	FB-4	1/24/2022	92583953017	WQ	FB (DGWC-17)	-	X	X	X	X	X	X	-	-	-
92583953	DUP-4	1/24/2022	92583953018	WG	FD (DGWC-5)	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-8	1/25/2022	92583953019	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-11	1/25/2022	92583953020	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-12	1/25/2022	92583953021	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-13	1/25/2022	92583953022	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-14	1/25/2022	92583953023	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-19	1/25/2022	92583953024	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-5	1/25/2022	92583953025	WQ	FB (DGWC-14)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-9	1/26/2022	92583953026	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-10	1/26/2022	92583953027	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-6	1/26/2022	92583953028	WQ	FB (DGWC-9)	-	X	X	X	X	X	X	-	-	-
92583953	DUP-5	1/26/2022	92583953029	WG	FD (DGWC-10)	X	X	X	X	X	X	X	-	-	-
92583950	DGWC-2	1/20/2022	92583950001	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-21	1/20/2022	92583950002	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-22	1/20/2022	92583950003	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-23	1/20/2022	92583950004	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-42	1/20/2022	92583950005	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-1	1/20/2022	92583950006	WQ	FB (DGWC-22)	-	-	-	-	-	-	-	-	X	X
92583950	FB-2	1/20/2022	92583950007	WQ	FB (DGWC-42)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-20	1/21/2022	92583950008	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-47	1/21/2022	92583950009	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-3	1/21/2022	92583950010	WQ	FB (DGWC-20)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-4	1/24/2022	92583950011	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-5	1/24/2022	92583950012	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-15	1/24/2022	92583950013	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-17	1/24/2022	92583950014	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-48	1/24/2022	92583950015	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	EB-4	1/24/2022	92583950016	WQ	EB (DGWC-4)	-	-	-	-	-	-	-	-	X	X
92583950	FB-4	1/24/2022	92583950017	WQ	FB (DGWC-17)	-	-	-	-	-	-	-	-	X	X
92583950	DUP-4	1/24/2022	92583950018	WG	FD (DGWC-5)	X	X	X	X	X	X	X	-	X	X
92583950	DGWC-8	1/25/2022	92583950019	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-11	1/25/2022	92583950020	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-12	1/25/2022	92583950021	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-13	1/25/2022	92583950022	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-14	1/25/2022	92583950023	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-19	1/25/2022	92583950024	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-5	1/25/2022	92583950025	WQ	FB (DGWC-14)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-9	1/26/2022	92583950026	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-10	1/26/2022	92583950027	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-6	1/26/2022	92583950028	WQ	FB (DGWC-9)	-	-	-	-	-	-	-	-	X	X
92583950	DUP-5	1/26/2022	92583950029	WG	FD (DGWC-10)	X	X	X	X	X	X	X	-	X	X
92583955	B-63	1/20/2022	92583955001	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-77	1/20/2022	92583955002	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-109D	1/20/2022	92583955003	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-115D	1/20/2022	92583955004	WG	-	X	X	X	X	X	X	X	-	-	-

TABLE 1
Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses									
						Field pH	Total Metals (SW 6020B)	Metals (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Bicarbonate Alkalinity (SM4500-CO2-D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92583955	B-120D	1/20/2022	92583955005	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-2	1/20/2022	92583955006	WG	EB (B-120D)	-	X	X	X	X	X	X	-	-	-
92583955	B-83	1/21/2022	92583955007	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-3	1/21/2022	92583955008	WG	EB (B-83)	-	X	X	X	X	X	X	-	-	-
92583955	B-104D	1/24/2022	92583955009	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-107D	1/24/2022	92583955010	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-108D	1/24/2022	92583955011	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-111D	1/24/2022	92583955012	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-66	1/25/2022	92583955013	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-82	1/25/2022	92583955014	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-106D	1/25/2022	92583955015	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-5	1/25/2022	92583955016	WG	EB (B-106D)	-	X	X	X	X	X	X	-	-	-
92583955	B-92	1/26/2022	92583955017	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-93	1/26/2022	92583955018	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-97	1/26/2022	92583955019	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-98	1/26/2022	92583955020	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-101D	1/26/2022	92583955021	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-6	1/26/2022	92583955022	WG	EB (B-97)	-	X	X	X	X	X	X	-	-	-
92583955	B-56	1/27/2022	92583955023	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-88	1/27/2022	92583955024	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-102D	1/27/2022	92583955025	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	FB-6	1/27/2022	92583955026	WG	FB (B-88)	-	X	X	X	X	X	X	-	-	-
92583955	DUP-6	1/27/2022	92583955027	WG	FD (B-56)	X	X	X	X	X	X	X	-	-	-
92583951	B-63	1/20/2022	92583951001	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-77	1/20/2022	92583951002	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-109D	1/20/2022	92583951003	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-115D	1/20/2022	92583951004	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-120D	1/20/2022	92583951005	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-2	1/20/2022	92583951006	WG	EB (B-120D)	-	-	-	-	-	-	-	X	X	-
92583951	B-83	1/21/2022	92583951007	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-3	1/21/2022	92583951008	WG	EB (B-83)	-	-	-	-	-	-	-	X	X	-
92583951	B-104D	1/24/2022	92583951009	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-107D	1/24/2022	92583951010	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-108D	1/24/2022	92583951011	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-111D	1/24/2022	92583951012	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-66	1/25/2022	92583951013	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-82	1/25/2022	92583951014	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-106D	1/25/2022	92583951015	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-5	1/25/2022	92583951016	WG	EB (B-106D)	-	-	-	-	-	-	-	X	X	-
92583951	B-92	1/26/2022	92583951017	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-93	1/26/2022	92583951018	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-97	1/26/2022	92583951019	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-98	1/26/2022	92583951020	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-101D	1/26/2022	92583951021	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-6	1/26/2022	92583951022	WG	EB (B-97)	-	-	-	-	-	-	-	X	X	-
92583951	B-56	1/27/2022	92583951023	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-88	1/27/2022	92583951024	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-102D	1/27/2022	92583951025	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	FB-6	1/27/2022	92583951026	WG	FB (B-88)	-	-	-	-	-	-	-	X	X	-
92583951	DUP-6	1/27/2022	92583951027	WG	FD (B-56)	-	-	-	-	-	-	-	X	X	-
92583585	B-116D	1/19/2022	92583585001	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	B-117D	1/19/2022	92583585002	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	B-118	1/19/2022	92583585003	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	B-119D	1/19/2022	92583585004	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	EB-1	1/19/2022	92583585005	WG	EB (B-117D)	-	X	X	X	X	X	X	-	-	-
92583576	B-116D	1/19/2022	92583576001	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	B-117D	1/19/2022	92583576002	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	B-118	1/19/2022	92583576003	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	B-119D	1/19/2022	92583576004	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	EB-1	1/19/2022	92583576005	WG	EB (B-117D)	-	-	-	-	-	-	-	X	X	-
92583957	B-62	1/20/2022	92583957001	WG	-	X	X	X	X	X	X	X	-	-	-
92583957	DUP-2	1/20/2022	92583957002	WG	DUP (B-62)	X	X	X	X	X	X	X	-	-	-
92583957	B-100	1/21/2022	92583957003	WG	-	X	X	X	X	X	X	X	-	-	-
92608499	B-122D	6/6/2022	92608499002	WG	-	X	X	X	X	X	X	X	-	-	-
92608499	FB-1	6/7/2022	92608499004	WG	FB (B-123D)	-	X	X	X	X	X	X	-	-	-
92608499	EB-1	6/6/2022	92608499005	WG	EB (B-122D)	-	X	X	X	X	X	X	-	-	-
92608499	B-123D	6/9/2022	92608499006	WG	-	X	X	X	X	X	X	X	-	-	-
92583952	B-62	1/20/2022	92583952001	WG	-	-	-	-	-	-	-	-	X	X	-
92583952	DUP-2	1/20/2022	92583952002	WG	DUP (B-62)	-	-	-	-	-	-	-	X	X	-
92583952	B-100	1/21/2022	92583952003	WG	-	-	-	-	-	-	-	-	X	X	-
92584718	B-90	1/26/2022	92584718001	WG	-	X	X	-	-	-	-	-	-	-	-

TABLE 1
Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses									
						Field pH	Total Metals (SW 6020B)	Metals (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Bicarbonate Alkalinity (SM4500-CO2-D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92584718	B-91	1/26/2022	92584718002	WG	-	X	X	-	-	-	-	-	-	-	-
92584718	B-95	1/26/2022	92584718003	WG	-	X	X	-	-	-	-	-	-	-	-
92584718	B-96	1/26/2022	92584718004	WG	-	X	X	-	-	-	-	-	-	-	-
92584718	B-99	1/26/2022	92584718005	WG	-	X	X	-	-	-	-	-	-	-	-
92584543	CR+0.4 (Mid)	1/25/2022	92584543001	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR+0.2 (Mid)	1/25/2022	92584543002	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.1 (Mid)	1/25/2022	92584543003	W	-	-	X	X	X	-	X	X	X	-	-
92584543	DW_DS (Mid)	1/25/2022	92584543004	W	-	-	X	X	X	-	X	X	X	-	-
92584543	DW_US (Mid)	1/25/2022	92584543005	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.2 (Mid)	1/25/2022	92584543006	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.5 (Mid)	1/25/2022	92584543007	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.8 (Mid)	1/25/2022	92584543008	W	-	-	X	X	X	-	X	X	X	-	-

Abbreviations:

- SDG - Sample Delivery Group
- QC - Quality Control
- SM - Standard Method
- SW - Solid Waste
- WG - Groundwater
- WQ - Water Quality
- W - Water
- TDS - Total dissolved solids
- FD - Field Duplicate

TABLE 2
Qualifier Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

SDG	Sample Name	Constituent	New Result	New RL or MDC	Qualifier	Reason
92583603	DGWA-70A	Chloride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583953	DGWC-2	Sulfate	-	-	J-	MS/MSD recovered outside acceptance criteria
92583953	DGWC-2	Fluoride	-	-	UJ	MS recovered outside acceptance criteria; RPD recovered above QC limits.
92583953	DGWC-48	Fluoride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583955	B-56	Antimony	0.003	-	U	Method blank contamination
92583955	DUP-6	Antimony	0.003	-	U	Method blank contamination
92583955	B-120D	Arsenic	0.005	-	U	Equipment blank contamination
92583955	B-83	Arsenic	0.005	-	U	Equipment blank contamination
92583955	B-115D	Alkalinity	-	-	J-	MSD recovered outside acceptance criteria
92583585	B-116D	Chloride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583585	B-116D	Sulfate	-	-	J+	MS/MSD recovered outside acceptance criteria
92583957	B-100	Chloride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583957	DUP-2	Sulfate	-	-	J-	MS/MSD recovered outside acceptance criteria
92583957	B-62	Sulfate	-	-	J-	MS/MSD recovered outside acceptance criteria

Abbreviations:

RL : Reporting limit

MDC : Minimum detectable concentration

SDG : Sample delivery group

Qualifier

UJ: Non-detect estimated value

J+: estimated, bias high

J-: estimated, bias low

APPENDIX B

Laboratory
Accreditation



COMMONWEALTH of VIRGINIA
Department of General Services

Division of Consolidated Laboratory Services

*600 North 5th Street
Richmond, Virginia 23219-3691
(804) 648-4480
FAX (804) 692-0416*

06/11/2021

Craig Tronzo
Pace Analytical Services, LLC - Asheville NC
2225 Riverside Drive
Asheville NC 28804

VELAP ID: 460222

Dear Craig Tronzo:

The Division of Consolidated Laboratory Services (DCLS) has accredited Pace Analytical Services, LLC - Asheville NC pursuant to the provisions of 1VAC30-46 and The NELAC Institute (TNI) 2009 Standard. Certificate number 11380 and the corresponding Scope of Accreditation are enclosed. This certificate expires 06/14/2022. The certificate must be conspicuously displayed in the laboratory along with the associated Scope of Accreditation.

Please note that your laboratory is required to notify the Virginia Environmental Laboratory Accreditation Program (VELAP) in writing of any changes in key accreditation criteria within 30 calendar days of the change per 1VAC30-46-90 A. This requirement includes changes in ownership, location, key personnel, and major instrumentation.

To maintain accreditation, the laboratory must continue to comply with 1VAC30-46. This includes ongoing satisfactory proficiency testing. The method checklists used by VELAP in the on-site assessment process are available upon request as a supplement to internal audits.

Please direct all correspondences and questions regarding accreditation to your laboratory's lead assessor, Ila Meyer-Fritzsche, at ila.meyer-fritzsche@dgs.virginia.gov or (804) 648-4480 x306.

Sincerely yours,

Cathy Westerman
Manager, Laboratory Certification Program

Enclosures
cc: Felicia Grogan



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES**



Certifies that

**VA Laboratory ID#: 460222
Pace Analytical Services, LLC - Asheville NC
2225 Riverside Drive
Asheville, NC 28804**

**Owner: PAS PARENT, LLC
Operator: PACE ANALYTICAL SERVICES, LLC
Responsible Official: FELICIA GROGAN**

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2009 TNI Standard approved by The NELAC Institute
is hereby approved as an
Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: June 15, 2021

Expiration Date: June 14, 2022

Certificate # 11380

A handwritten signature in cursive script that reads "Denise M. Toney".

**Denise M. Toney, Ph.D., HCLD
DGS Deputy Director for Laboratories**

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP)
Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation



Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 11380

Pace Analytical Services, LLC - Asheville NC
 2225 Riverside Drive
 Asheville, NC 28804

Virginia Laboratory ID: 460222
 Effective Date: June 15, 2021
 Expiration Date: June 14, 2022

DRINKING WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 200.8 REV 5.4	COPPER	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1 A + C)	NITRATE AS N	VA
SM 2320 B-2011	ALKALINITY AS CaCO3	VA
SM 9223 COLISURE®	TOTAL COLIFORMS	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 200.8 REV 5.4	LEAD	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A)	NITRITE AS N	VA
SM 9223 COLISURE®	ESCHERICHIA COLI	VA

NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 1010 B	FLASHPOINT	VA
EPA 160.4	RESIDUE-VOLATILE	VA
EPA 180.1 REV 2	TURBIDITY	VA
EPA 200.7 REV 4.4	ANTIMONY	VA
EPA 200.7 REV 4.4	BARIUM	VA
EPA 200.7 REV 4.4	BORON	VA
EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	COBALT	VA
EPA 200.7 REV 4.4	IRON	VA
EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	MOLYBDENUM	VA
EPA 200.7 REV 4.4	POTASSIUM	VA
EPA 200.7 REV 4.4	SILICA AS SiO2	VA
EPA 200.7 REV 4.4	SODIUM	VA
EPA 200.7 REV 4.4	TIN	VA
EPA 200.7 REV 4.4	VANADIUM	VA
EPA 200.8 REV 5.4	ALUMINUM	VA
EPA 200.8 REV 5.4	ARSENIC	VA
EPA 200.8 REV 5.4	BERYLLIUM	VA
EPA 200.8 REV 5.4	CHROMIUM	VA
EPA 200.8 REV 5.4	COPPER	VA
EPA 200.8 REV 5.4	MANGANESE	VA
EPA 200.8 REV 5.4	NICKEL	VA
EPA 200.8 REV 5.4	SILVER	VA
EPA 200.8 REV 5.4	VANADIUM	VA
EPA 200.8 REV 5.4 - EXTENDED	BORON	VA
EPA 200.8 REV 5.4 - EXTENDED	IRON	VA
EPA 200.8 REV 5.4 - EXTENDED	POTASSIUM	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 120.1	CONDUCTIVITY	VA
EPA 1631 E	MERCURY	VA
EPA 200.7 REV 4.4	ALUMINUM	VA
EPA 200.7 REV 4.4	ARSENIC	VA
EPA 200.7 REV 4.4	BERYLLIUM	VA
EPA 200.7 REV 4.4	CADMIUM	VA
EPA 200.7 REV 4.4	CHROMIUM	VA
EPA 200.7 REV 4.4	COPPER	VA
EPA 200.7 REV 4.4	LEAD	VA
EPA 200.7 REV 4.4	MANGANESE	VA
EPA 200.7 REV 4.4	NICKEL	VA
EPA 200.7 REV 4.4	SELENIUM	VA
EPA 200.7 REV 4.4	SILVER	VA
EPA 200.7 REV 4.4	THALLIUM	VA
EPA 200.7 REV 4.4	TITANIUM	VA
EPA 200.7 REV 4.4	ZINC	VA
EPA 200.8 REV 5.4	ANTIMONY	VA
EPA 200.8 REV 5.4	BARIUM	VA
EPA 200.8 REV 5.4	CADMIUM	VA
EPA 200.8 REV 5.4	COBALT	VA
EPA 200.8 REV 5.4	LEAD	VA
EPA 200.8 REV 5.4	MOLYBDENUM	VA
EPA 200.8 REV 5.4	SELENIUM	VA
EPA 200.8 REV 5.4	THALLIUM	VA
EPA 200.8 REV 5.4	ZINC	VA
EPA 200.8 REV 5.4 - EXTENDED	CALCIUM	VA
EPA 200.8 REV 5.4 - EXTENDED	MAGNESIUM	VA
EPA 200.8 REV 5.4 - EXTENDED	SODIUM	VA

This Scope of Accreditation must accompany the Certificate issued by Virginia DCLS with the same Certificate Number indicated above.



Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 11380

Pace Analytical Services, LLC - Asheville NC
 2225 Riverside Drive
 Asheville, NC 28804

Virginia Laboratory ID: 460222
 Effective Date: June 15, 2021
 Expiration Date: June 14, 2022

NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 200.8 REV 5.4 - EXTENDED	TIN	VA	EPA 200.8 REV 5.4 - EXTENDED	TITANIUM	VA
EPA 218.6 REV 3.3	CHROMIUM VI	VA	EPA 245.1 REV 3	MERCURY	VA
EPA 300.0 REV 2.1	BROMIDE	VA	EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 300.0 REV 2.1	FLUORIDE	VA	EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 300.0 REV 2.1	NITRATE/NITRITE	VA	EPA 300.0 REV 2.1	NITRITE AS N	VA
EPA 300.0 REV 2.1	SULFATE	VA	EPA 3005 A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	VA
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	VA	EPA 350.1 REV 2	AMMONIAAS N	VA
EPA 351.2 MINUS EPA 350.1	ORGANIC NITROGEN	VA	EPA 351.2 REV 2 (AS LACHAT 10-107-06-2-D)	KJELDAHL NITROGEN - TOTAL (TKN)	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1 A + C)	NITRATE AS N	VA	EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A)	NITRATE/NITRITE	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A)	NITRITE AS N	VA	EPA 365.1 REV 2 (AS LACHAT 10-115-01-1-E)	PHOSPHORUS, TOTAL	VA
EPA 420.4 REV 1 (AS LACHAT 10-210-00-1-X)	TOTAL PHENOLICS	VA	EPA 6010 D	ALUMINUM	VA
EPA 6010 D	ANTIMONY	VA	EPA 6010 D	ARSENIC	VA
EPA 6010 D	BARIUM	VA	EPA 6010 D	BERYLLIUM	VA
EPA 6010 D	BORON	VA	EPA 6010 D	CADMIUM	VA
EPA 6010 D	CALCIUM	VA	EPA 6010 D	CHROMIUM	VA
EPA 6010 D	COBALT	VA	EPA 6010 D	COPPER	VA
EPA 6010 D	IRON	VA	EPA 6010 D	LEAD	VA
EPA 6010 D	LITHIUM	VA	EPA 6010 D	MAGNESIUM	VA
EPA 6010 D	MANGANESE	VA	EPA 6010 D	MOLYBDENUM	VA
EPA 6010 D	NICKEL	VA	EPA 6010 D	POTASSIUM	VA
EPA 6010 D	SELENIUM	VA	EPA 6010 D	SILICA AS SIO2	VA
EPA 6010 D	SILVER	VA	EPA 6010 D	SODIUM	VA
EPA 6010 D	STRONTIUM	VA	EPA 6010 D	THALLIUM	VA
EPA 6010 D	TIN	VA	EPA 6010 D	TITANIUM	VA
EPA 6010 D	VANADIUM	VA	EPA 6010 D	ZINC	VA
EPA 6010 D - EXTENDED	SILICON	VA	EPA 6020 B	ALUMINUM	VA
EPA 6020 B	ANTIMONY	VA	EPA 6020 B	ARSENIC	VA
EPA 6020 B	BARIUM	VA	EPA 6020 B	BERYLLIUM	VA
EPA 6020 B	CADMIUM	VA	EPA 6020 B	CALCIUM	VA
EPA 6020 B	CHROMIUM	VA	EPA 6020 B	COBALT	VA
EPA 6020 B	COPPER	VA	EPA 6020 B	IRON	VA
EPA 6020 B	LEAD	VA	EPA 6020 B	MAGNESIUM	VA

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Scope of Accreditation

VELAP Certificate No.: 11380

Pace Analytical Services, LLC - Asheville NC
 2225 Riverside Drive
 Asheville, NC 28804

Virginia Laboratory ID: 460222
 Effective Date: June 15, 2021
 Expiration Date: June 14, 2022

NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 6020 B	MANGANESE	VA
EPA 6020 B	NICKEL	VA
EPA 6020 B	SELENIUM	VA
EPA 6020 B	SODIUM	VA
EPA 6020 B	TIN	VA
EPA 6020 B	ZINC	VA
EPA 6020 B - EXTENDED	BORON	VA
EPA 6020 B - EXTENDED	STRONTIUM	VA
EPA 6020 B - EXTENDED	URANIUM	VA
EPA 7470 A	MERCURY	VA
EPA 9012 B	AMENABLE CYANIDE	VA
EPA 9040 C	PH	VA
EPA 9056 A	CHLORIDE	VA
EPA 9056 A	NITRATE AS N	VA
EPA 9056 A	SULFATE	VA
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	VA
LACHAT QUIKCHEM 10-204-00-1-X	CYANIDE	VA
SM 2320 B-2011	ALKALINITY AS CaCO3	VA
SM 2540 B-2011	RESIDUE-TOTAL (TS)	VA
SM 2540 D-2011	RESIDUE-NONFILTERABLE (TSS)	VA
SM 3500-CR B-2011	CHROMIUM VI	VA
SM 4500-CN ⁻ E-2011	CYANIDE	VA
SM 4500-P E-2011	ORTHOPHOSPHATE AS P	VA
SM 5210 B-2011	BIOCHEMICAL OXYGEN DEMAND (BOD)	VA
SM 5220 D-2011	CHEMICAL OXYGEN DEMAND (COD)	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 6020 B	MOLYBDENUM	VA
EPA 6020 B	POTASSIUM	VA
EPA 6020 B	SILVER	VA
EPA 6020 B	THALLIUM	VA
EPA 6020 B	VANADIUM	VA
EPA 6020 B - EXTENDED	BISMUTH	VA
EPA 6020 B - EXTENDED	LITHIUM	VA
EPA 6020 B - EXTENDED	TITANIUM	VA
EPA 7196 A	CHROMIUM VI	VA
EPA 9010 C	PREP: CYANIDE DISTILLATION	VA
EPA 9012 B	TOTAL CYANIDE	VA
EPA 9056 A	BROMIDE	VA
EPA 9056 A	FLUORIDE	VA
EPA 9056 A	NITRITE AS N	VA
EPA 9056 A - EXTENDED	NITRATE/NITRITE	VA
EPA 9095 B	FREE LIQUID	VA
SM 2130 B-2011	TURBIDITY	VA
SM 2340 B-2011	TOTAL HARDNESS AS CaCO3	VA
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	VA
SM 2540 F-2011	RESIDUE-SETTLABLE	VA
SM 4500-CL ⁻ E-2011	CHLORIDE	VA
SM 4500-CN ⁻ G-2011	AMENABLE CYANIDE	VA
SM 4500-S2 ⁻ D-2011	SULFIDE	VA
SM 5210 B-2011	CARBONACEOUS BOD (CBOD)	VA
SM 5310 B-2011	TOTAL ORGANIC CARBON (TOC)	VA

SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 1010 B	FLASHPOINT	VA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	VA
EPA 3050 B	PREP: ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	VA
EPA 6010 D	ANTIMONY	VA
EPA 6010 D	BARIUM	VA
EPA 6010 D	BORON	VA
EPA 6010 D	CALCIUM	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	VA
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	VA
EPA 6010 D	ALUMINUM	VA
EPA 6010 D	ARSENIC	VA
EPA 6010 D	BERYLLIUM	VA
EPA 6010 D	CADMIUM	VA
EPA 6010 D	CHROMIUM	VA

This Scope of Accreditation must accompany the Certificate issued by Virginia DCLS with the same Certificate Number indicated above.



Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 11380

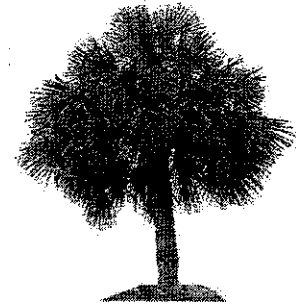
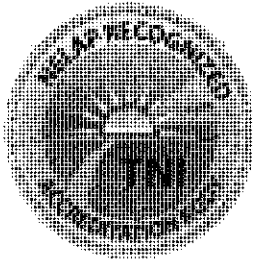
Pace Analytical Services, LLC - Asheville NC
 2225 Riverside Drive
 Asheville, NC 28804

Virginia Laboratory ID: 460222
 Effective Date: June 15, 2021
 Expiration Date: June 14, 2022

SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 6010 D	COBALT	VA
EPA 6010 D	IRON	VA
EPA 6010 D	MAGNESIUM	VA
EPA 6010 D	MOLYBDENUM	VA
EPA 6010 D	POTASSIUM	VA
EPA 6010 D	SILVER	VA
EPA 6010 D	STRONTIUM	VA
EPA 6010 D	TITANIUM	VA
EPA 6010 D	ZINC	VA
EPA 7471 B	MERCURY	VA
EPA 9060	TOTAL ORGANIC CARBON (TOC)	VA
EPA 9095 B	FREE LIQUID	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 6010 D	COPPER	VA
EPA 6010 D	LEAD	VA
EPA 6010 D	MANGANESE	VA
EPA 6010 D	NICKEL	VA
EPA 6010 D	SELENIUM	VA
EPA 6010 D	SODIUM	VA
EPA 6010 D	THALLIUM	VA
EPA 6010 D	VANADIUM	VA
EPA 6010 D - EXTENDED	SILICON	VA
EPA 9045 D	PH	VA
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	VA



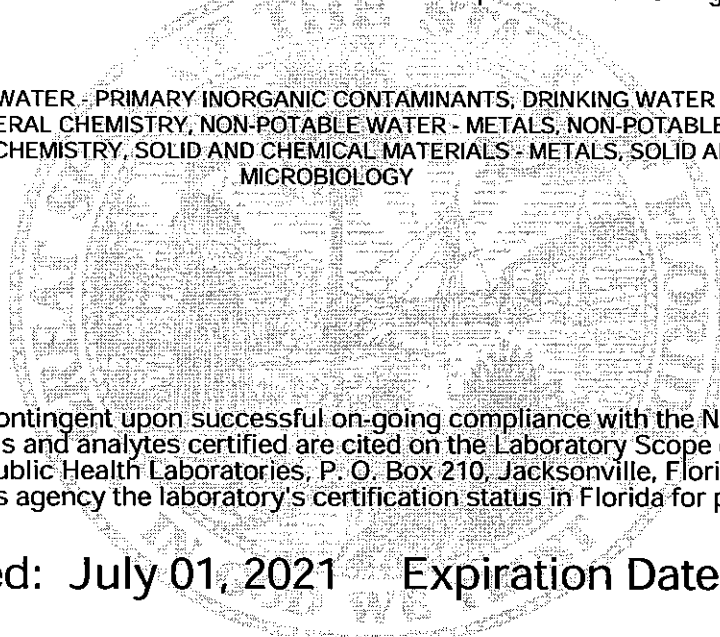
State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that

E87315

PACE ANALYTICAL SERVICES, LLC- ATLANTA GA
 110 TECHNOLOGY PARKWAY
 PEACHTREE CORNERS, GA 30092

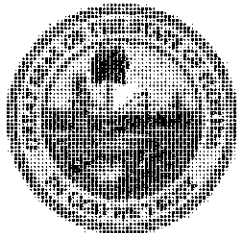
has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - MICROBIOLOGY



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, 2021 Expiration Date: June 30, 2022



Patty A. Lewandowski, MBA, MT(ASCP)
 Chief Bureau of Public Health Laboratories
 DH Form 1697, 7/04
 NON-TRANSFERABLE E87315-52-07/01/2021
 Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87315

EPA Lab Code: GA00051

(770) 734-4200

E87315
Pace Analytical Services, LLC- Atlanta GA
110 Technology Parkway
Peachtree Corners, GA 30092

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Color	SM 2120 B	Secondary Inorganic Contaminants	NELAP	4/10/2002
Escherichia coli	SM 9223 B	Microbiology	NELAP	4/10/2002
Escherichia coli	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Heterotrophic plate count	SIMPLATE	Microbiology	NELAP	5/29/2012
Nitrate	EPA 353.2	Primary Inorganic Contaminants	NELAP	4/17/2020
Nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	4/17/2020
Orthophosphate as P	SM 4500-P E	Primary Inorganic Contaminants	NELAP	4/10/2002
pH	SM 4500-H+-B	Primary Inorganic Contaminants, Secondary Inorganic Contaminants	NELAP	4/10/2002
Residual free chlorine	SM 4500-Cl G	Primary Inorganic Contaminants	NELAP	11/4/2010
Total coliforms	SM 9223 B	Microbiology	NELAP	4/10/2002
Total coliforms	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Total nitrate-nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	4/17/2020
Total residual chlorine	SM 4500-Cl G	Primary Inorganic Contaminants	NELAP	11/4/2010
Turbidity	EPA 180.1	Secondary Inorganic Contaminants	NELAP	4/10/2002



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87315

EPA Lab Code: GA00051

(770) 734-4200

E87315
Pace Analytical Services, LLC- Atlanta GA
110 Technology Parkway
Peachtree Corners, GA 30092

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 200.7	Metals	NELAP	4/10/2002
Aluminum	EPA 200.8	Metals	NELAP	8/30/2004
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Aluminum	EPA 6020	Metals	NELAP	8/30/2004
Antimony	EPA 200.7	Metals	NELAP	4/10/2002
Antimony	EPA 200.8	Metals	NELAP	8/30/2004
Antimony	EPA 6010	Metals	NELAP	7/1/2003
Antimony	EPA 6020	Metals	NELAP	8/30/2004
Arsenic	EPA 200.7	Metals	NELAP	4/10/2002
Arsenic	EPA 200.8	Metals	NELAP	8/30/2004
Arsenic	EPA 6010	Metals	NELAP	4/10/2002
Arsenic	EPA 6020	Metals	NELAP	8/30/2004
Barium	EPA 200.7	Metals	NELAP	4/10/2002
Barium	EPA 200.8	Metals	NELAP	8/30/2004
Barium	EPA 6010	Metals	NELAP	7/1/2003
Barium	EPA 6020	Metals	NELAP	8/30/2004
Beryllium	EPA 200.7	Metals	NELAP	4/10/2002
Beryllium	EPA 200.8	Metals	NELAP	8/30/2004
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
Beryllium	EPA 6020	Metals	NELAP	8/30/2004
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	4/10/2002
Boron	EPA 200.7	Metals	NELAP	4/10/2002
Boron	EPA 200.8	Metals	NELAP	11/6/2014
Boron	EPA 6010	Metals	NELAP	7/1/2003
Boron	EPA 6020	Metals	NELAP	8/30/2004
Cadmium	EPA 200.7	Metals	NELAP	4/10/2002
Cadmium	EPA 200.8	Metals	NELAP	8/30/2004
Cadmium	EPA 6010	Metals	NELAP	4/10/2002
Cadmium	EPA 6020	Metals	NELAP	8/30/2004
Calcium	EPA 200.7	Metals	NELAP	4/10/2002
Calcium	EPA 200.8	Metals	NELAP	11/6/2014
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Calcium	EPA 6020	Metals	NELAP	8/30/2004
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	4/10/2002
Chromium	EPA 200.7	Metals	NELAP	4/10/2002
Chromium	EPA 200.8	Metals	NELAP	8/30/2004

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2022



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87315

EPA Lab Code: GA00051

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chromium	EPA 6010	Metals	NELAP	7/1/2003
Chromium	EPA 6020	Metals	NELAP	8/30/2004
Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	General Chemistry	NELAP	7/28/2009
Cobalt	EPA 200.7	Metals	NELAP	4/10/2002
Cobalt	EPA 200.8	Metals	NELAP	8/30/2004
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Cobalt	EPA 6020	Metals	NELAP	8/30/2004
Color	SM 2120 B	General Chemistry	NELAP	4/10/2002
Copper	EPA 200.7	Metals	NELAP	4/10/2002
Copper	EPA 200.8	Metals	NELAP	8/30/2004
Copper	EPA 6010	Metals	NELAP	4/10/2002
Copper	EPA 6020	Metals	NELAP	8/30/2004
Corrosivity (pH)	EPA 9040	General Chemistry	NELAP	7/1/2003
Escherichia coli	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Fecal coliforms	COLILERT®-18 (Fecal Coliforms)	Microbiology	NELAP	11/6/2014
Fecal coliforms	SM 9222 D	Microbiology	NELAP	2/21/2002
Hardness	SM 2340 B	General Chemistry	NELAP	7/28/2009
Hardness (calc.)	EPA 200.7	Metals	NELAP	6/6/2002
Heterotrophic plate count	SIMPLATE	Microbiology	NELAP	5/29/2012
Iron	EPA 200.7	Metals	NELAP	4/10/2002
Iron	EPA 200.8	Metals	NELAP	11/6/2014
Iron	EPA 6010	Metals	NELAP	7/1/2003
Iron	EPA 6020	Metals	NELAP	8/30/2004
Iron-(II) (Ferrous Iron)	SM 3500-Fe B (20th/21st Ed.)/UV-VIS	General Chemistry	NELAP	7/28/2009
Lead	EPA 200.7	Metals	NELAP	4/10/2002
Lead	EPA 200.8	Metals	NELAP	8/30/2004
Lead	EPA 6010	Metals	NELAP	4/10/2002
Lead	EPA 6020	Metals	NELAP	8/30/2004
Lithium	EPA 200.8	Metals	NELAP	10/6/2016
Lithium	EPA 6020	Metals	NELAP	10/6/2016
Magnesium	EPA 200.7	Metals	NELAP	4/10/2002
Magnesium	EPA 200.8	Metals	NELAP	11/6/2014
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Magnesium	EPA 6020	Metals	NELAP	8/30/2004

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2022



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87315

EPA Lab Code: GA00051

(770) 734-4200

E87315
Pace Analytical Services, LLC- Atlanta GA
110 Technology Parkway
Peachtree Corners, GA 30092

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Manganese	EPA 200.7	Metals	NELAP	4/10/2002
Manganese	EPA 200.8	Metals	NELAP	8/30/2004
Manganese	EPA 6010	Metals	NELAP	7/1/2003
Manganese	EPA 6020	Metals	NELAP	8/30/2004
Mercury	EPA 245.1	Metals	NELAP	4/10/2002
Mercury	EPA 7470	Metals	NELAP	4/10/2002
Molybdenum	EPA 200.7	Metals	NELAP	4/10/2002
Molybdenum	EPA 200.8	Metals	NELAP	8/30/2004
Molybdenum	EPA 6010	Metals	NELAP	4/10/2002
Molybdenum	EPA 6020	Metals	NELAP	8/30/2004
Nickel	EPA 200.7	Metals	NELAP	4/10/2002
Nickel	EPA 200.8	Metals	NELAP	8/30/2004
Nickel	EPA 6010	Metals	NELAP	4/10/2002
Nickel	EPA 6020	Metals	NELAP	8/30/2004
Nitrate as N	EPA 353.2	General Chemistry	NELAP	4/17/2020
Nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	4/17/2020
Nitrite as N	EPA 353.2	General Chemistry	NELAP	4/17/2020
Orthophosphate as P	SM 4500-P E	General Chemistry	NELAP	4/10/2002
Oxygen, dissolved	ASTM D888-09C	General Chemistry	NELAP	11/6/2014
Oxygen, dissolved	SM 4500-O G	General Chemistry	NELAP	4/10/2002
pH	EPA 9040	General Chemistry	NELAP	7/1/2003
pH	SM 4500-H+-B	General Chemistry	NELAP	10/15/2007
Phosphorus, total	EPA 200.7	Metals	NELAP	9/27/2002
Phosphorus, total	EPA 6010	Metals	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	4/10/2002
Potassium	EPA 200.8	Metals	NELAP	11/6/2014
Potassium	EPA 6010	Metals	NELAP	4/10/2002
Potassium	EPA 6020	Metals	NELAP	8/30/2004
Residual free chlorine	SM 4500-Cl G	General Chemistry	NELAP	11/4/2010
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	10/15/2007
Residue-nonfilterable (TSS)	SM 2540 D	General Chemistry	NELAP	10/15/2007
Residue-settleable	SM 2540 F	General Chemistry	NELAP	10/15/2007
Selenium	EPA 200.7	Metals	NELAP	4/10/2002
Selenium	EPA 200.8	Metals	NELAP	8/30/2004
Selenium	EPA 6010	Metals	NELAP	4/10/2002
Selenium	EPA 6020	Metals	NELAP	8/30/2004

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2022



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87315

EPA Lab Code: GA00051

(770) 734-4200

E87315

**Pace Analytical Services, LLC- Atlanta GA
110 Technology Parkway
Peachtree Corners, GA 30092**

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Silicon	EPA 200.7	Metals	NELAP	4/10/2002
Silicon	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 200.7	Metals	NELAP	4/10/2002
Silver	EPA 200.8	Metals	NELAP	8/30/2004
Silver	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 6020	Metals	NELAP	8/30/2004
Sodium	EPA 200.7	Metals	NELAP	4/10/2002
Sodium	EPA 200.8	Metals	NELAP	11/6/2014
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Sodium	EPA 6020	Metals	NELAP	8/30/2004
Strontium	EPA 200.7	Metals	NELAP	9/27/2002
Strontium	EPA 6010	Metals	NELAP	7/1/2003
Strontium	EPA 6020	Metals	NELAP	8/30/2004
Thallium	EPA 200.7	Metals	NELAP	4/10/2002
Thallium	EPA 200.8	Metals	NELAP	8/30/2004
Thallium	EPA 6010	Metals	NELAP	7/1/2003
Thallium	EPA 6020	Metals	NELAP	8/30/2004
Tin	EPA 200.7	Metals	NELAP	4/10/2002
Tin	EPA 200.8	Metals	NELAP	11/6/2014
Tin	EPA 6010	Metals	NELAP	7/1/2003
Tin	EPA 6020	Metals	NELAP	8/30/2004
Titanium	EPA 200.7	Metals	NELAP	4/10/2002
Titanium	EPA 200.8	Metals	NELAP	11/6/2014
Titanium	EPA 6010	Metals	NELAP	7/1/2003
Titanium	EPA 6020	Metals	NELAP	8/30/2004
Total coliforms	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Total residual chlorine	SM 4500-CI G	General Chemistry	NELAP	11/4/2010
Total, fixed, and volatile residue	SM 2540 G	General Chemistry	NELAP	9/27/2002
Turbidity	EPA 180.1	General Chemistry	NELAP	4/10/2002
Vanadium	EPA 200.7	Metals	NELAP	4/10/2002
Vanadium	EPA 200.8	Metals	NELAP	8/30/2004
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vanadium	EPA 6020	Metals	NELAP	8/30/2004
Zinc	EPA 200.7	Metals	NELAP	4/10/2002
Zinc	EPA 200.8	Metals	NELAP	8/30/2004
Zinc	EPA 6010	Metals	NELAP	4/10/2002

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2022



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E87315 EPA Lab Code: GA00051 (770) 734-4200

E87315
Pace Analytical Services, LLC- Atlanta GA
110 Technology Parkway
Peachtree Corners, GA 30092

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Zinc	EPA 6020	Metals	NELAP	8/30/2004



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-52, expiration date June 30, 2022. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315
Pace Analytical Services, LLC- Atlanta GA
110 Technology Parkway
Peachtree Corners, GA 30092

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 6010	Metals	NELAP	4/10/2002
Antimony	EPA 6010	Metals	NELAP	4/10/2002
Arsenic	EPA 6010	Metals	NELAP	4/10/2002
Barium	EPA 6010	Metals	NELAP	4/10/2002
Beryllium	EPA 6010	Metals	NELAP	4/10/2002
Boron	EPA 6010	Metals	NELAP	4/10/2002
Cadmium	EPA 6010	Metals	NELAP	4/10/2002
Calcium	EPA 6010	Metals	NELAP	4/10/2002
Chromium	EPA 6010	Metals	NELAP	4/10/2002
Cobalt	EPA 6010	Metals	NELAP	4/10/2002
Copper	EPA 6010	Metals	NELAP	4/10/2002
Fecal coliforms	SM 9222 D	Microbiology	NELAP	7/28/2009
Fixed Residue	SM 2540 G-2011	General Chemistry	NELAP	10/1/2020
Iron	EPA 6010	Metals	NELAP	4/10/2002
Lead	EPA 6010	Metals	NELAP	4/10/2002
Magnesium	EPA 6010	Metals	NELAP	4/10/2002
Manganese	EPA 6010	Metals	NELAP	4/10/2002
Mercury	EPA 7471	Metals	NELAP	4/10/2002
Molybdenum	EPA 6010	Metals	NELAP	4/10/2002
Nickel	EPA 6010	Metals	NELAP	4/10/2002
pH	EPA 9045	General Chemistry	NELAP	4/10/2002
Phosphorus, total	EPA 6010	Metals	NELAP	4/10/2002
Potassium	EPA 6010	Metals	NELAP	4/10/2002
Residue-total	SM 2540 G-2011	General Chemistry	NELAP	10/1/2020
Residue-volatile	SM 2540 G-2011	General Chemistry	NELAP	10/1/2020
Selenium	EPA 6010	Metals	NELAP	4/10/2002
Silicon	EPA 6010	Metals	NELAP	4/10/2002
Silver	EPA 6010	Metals	NELAP	4/10/2002
Sodium	EPA 6010	Metals	NELAP	7/9/2002
Strontium	EPA 6010	Metals	NELAP	4/10/2002
Thallium	EPA 6010	Metals	NELAP	4/10/2002
Tin	EPA 6010	Metals	NELAP	4/10/2002
Titanium	EPA 6010	Metals	NELAP	9/27/2002
Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	General Chemistry	NELAP	4/10/2002
Vanadium	EPA 6010	Metals	NELAP	4/10/2002
Zinc	EPA 6010	Metals	NELAP	4/10/2002

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2022

Ron DeSantis
Governor



Laboratory Scope of Accreditation

Page 8 of 8

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2022

APPENDIX C

**Piezometer Installation (DGWC-121, B-122D, B-123D)
and Abandonment (B-84) Report**

June 2, 2022

Project No. 166849621

Ms. Lauren Hartley, PG

Southern Company Services
241 Ralph McGill Blvd NE
Atlanta, GA 30308
JAbraham@southernco.com

WELL AND PIEZOMETER INSTALLATION (DGWC-121, B-122D, B-123D) AND ABANDONMENT (B-84) REPORT, GEORGIA POWER COMPANY - PLANT MCDONOUGH, SMYRNA, GEORGIA

Dear Ms. Hartley:

Golder Associates USA Inc. (Golder) is submitting this *Piezometer and Well Installation and Abandonment Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power), which documents the construction of two piezometers and one monitoring well, and abandonment of one piezometer at Plant McDonough in Smyrna, Georgia (Site). Piezometer construction activities were performed in general accordance with the standards described in the Resource Conservation and Recovery Act (RCRA) Technical Enforcement Guidance Document (1986) and the Georgia Water Wells Standards Act of 1985. The installation and abandonment of the piezometers was conducted under the oversight and direction of Rachel Kirkman, a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in March 2022 through April 2022. The field work consisted of the installation and development of one (1) monitoring well and two (2) piezometers, which were installed for purposes of delineation of target constituents for Coal Combustion Residuals (CCR) compliance monitoring in groundwater. Due to construction activities, piezometer B-84 was abandoned in April 2022. Metro Engineering & Surveying (Metro) conducted a survey of the installed wells and piezometers in May 2022. A summary of the activities is presented below. Figure 1 presents the location of each of the newly installed piezometers.

Monitoring Well and Piezometer Drilling and Construction Activities

Monitoring well DGWC-121 and piezometers B-122D and B-123D were drilled and installed by Cascade Drilling, LP, who was contracted through SCS, at the facility in March 2022 through April 2022. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling (Appendix A). The driller's name is provided on the boring/construction diagrams presented in Appendix B.

An experienced Golder geologist was present on site to oversee and record the drilling and piezometer construction under the supervision of a professional geologist registered to practice in Georgia (Rachel Kirkman). Drilling methods employed for borehole advancement were rotasonic drilling techniques. The drilling equipment

consisted of a full-sized TSI 150T Truck-Mounted Sonic drilling rig, equipped with 4-inch sonic rods with a 6-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic and geotechnical properties.

Prior to use, and between boreholes, downhole equipment was steam cleaned. The boring (lithologic) logs and piezometer construction records for the newly installed piezometers are included in Appendix B. The construction data are summarized on Table 1, and the locations of the piezometers are provided on Figure 1.

Piezometers were constructed within the borehole using factory-cleaned and sealed Schedule 40 polyvinyl chloride (PVC) products with flush-threaded fittings. Monitoring well DGWC-121 and piezometer B-122D were constructed with a 10-foot section of 4-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC, U-Pack screen. To increase the likelihood of water production, piezometer B-123D was constructed with five (5) 10-foot sections of 4-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC, U-Pack screens. The well depths for DGWC-121, B-122D, and B-123D are 50 feet, 85 feet, and 160 feet, respectively.

The drillers filled the annulus of each U-Pack screen section with No. 1 filter sand. For each borehole, the screen was placed near the bottom of the borehole, with the remainder of the piezometer constructed from 10-foot sections of 2-inch ID, flush-threaded, PVC casing riser. A flush-threaded PVC end cap was placed on the bottom of each piezometer to provide a 0.4-foot sump/sediment trap, and the top of the piezometers to extend to approximately 2.8 feet above grade. Construction details for the well and piezometers are shown on the boring/construction logs in Appendix B. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated.

Borehole geophysics was performed on piezometer B-123D to identify potential water-producing fractures to aid in well screen length and placement. Geophysical tests included acoustic televiewer, caliper, heat pulse flow meter, fluid temperature and fluid conductivity. The logs showed water producing features at 113 and 134 feet below ground surface (bgs). As these appeared to be relatively small fractures with low measurable flow (i.e., between 0.018 and 0.027 gallons per minute), the selected screened interval was chosen to target both potential water-bearing zones with a 50-foot screened interval. Borehole geophysical logs are included in Appendix C.

Following placement of the screen and casing, the annular space in each borehole adjacent to the screen was filled with US Standard Sieve size No. 1 filter pack sand as appropriate for the formation. The filter pack sand was placed into the borehole and extended approximately 2 to 3 feet above the depth of the top of the screen. Immediately following placement of the filter pack, each piezometer was pumped using a portable submersible pump until visibly clear water was discharged. A filter pack seal, composed of approximately 2.5 to 3 feet of hydrated 3/8" coated bentonite pellets, was then placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place. The bentonite was hydrated using potable water and allowed to cure for approximately two hours prior to grouting the piezometer.

Following hydration of the bentonite, the remaining annular space was grouted with an AquaGuard® bentonite grout mixture to approximately 2 feet below ground surface using a tremie method. Based on information provided by the product manufacturer, AquaGuard® is a bentonite grout consisting of bentonite and additives that allow for a mixture of 30% solids by weight to facilitate grouting via tremie pipe, with additives that slow the bentonite curing so that proper placement can be achieved. Each piezometer surface completion consists of a locked, anodized aluminum protective casing and a 4-foot by 4-foot by 4-inch concrete pad with an engraved tag

showing the piezometer name. The annular space of the aluminum protective casing was filled with pea gravel to approximately 2 inches from top of PVC. A weep hole was drilled into the lower side of the protective casing.

Piezometer Development Activities

The newly installed piezometers were developed in April 2022 in general accordance with the *Monitoring Well Development Procedures* prepared by SCS (March 2016), and the US EPA Science and Ecosystem Support Division *Design and Installation of Monitoring Wells* (February 2008). The piezometers were surged using a Reclaimer pump system. During development, water quality measurements of pH, temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity were periodically collected using field-calibrated water quality equipment after the piezometer responded to improving conditions. Development activities were conducted utilizing an AquaTroll® multimeter and a Hach turbidimeter and for monitoring water quality measurements. Equipment calibration forms and development forms are included in Appendix B with development details summarized in Table 2.

During development, a turbidity value below 10 nephelometric turbidity units (NTUs) was achieved at each well and piezometer. Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a permanent marking at the top of the casing and recorded to within 0.01 foot.

Piezometer Survey

The newly installed piezometers and well were surveyed on May 9, 2022 by Metro Survey and Engineering. The survey was completed using Leica GS18T (survey-grade) global positioning system receiver and a closed level check loop with a Leica DNA 10 digital level with a positional tolerance of 0.5/0.01' H:V. The top of the PVC casing was surveyed to 0.5 foot horizontal and 0.01-foot vertical tolerance, and a marking was made on the PVC to use for reference during future measurements. Surveyed coordinates and elevations are presented on the boring/construction diagrams and on Table 1. The certified surveyor's report is attached as Appendix C.

Piezometer Abandonment

Piezometer B-84 was damaged during construction activities for infrastructure updates and required abandonment in place by SCS's Civil Field Service Team. The abandonment was done under the oversight of Duane Fulton and under the supervision of a professional geologist registered to practice in Georgia (Rachel Kirkman) on April 28, 2022. The well was abandoned by backfilling the 2-inch PVC with time-released 3/8" TR-30 Pel-Plug bentonite pellets from 35 feet to 49.3 feet; and the remaining PVC was abandoned with 6.5 gallons of AquaGuard® bentonite grout mixture. There were no above-ground surface completions to remove.

Closing

We appreciate the opportunity to assist SCS and Georgia Power with this project. Should you have any questions or require additional information, please contact the undersigned at (770) 496-1893.

Sincerely,

Golder Associates USA Inc.



Rachel P. Kirkman, PG
Director, Geologist

A handwritten signature in black ink, appearing to read "Dawn L. Prell".

Dawn L. Prell, CPG
Senior Consultant, Hydrogeologist

RPK/DP/kld

- Attachments:
- Figure 1: Monitoring Well and Piezometer Location Map
 - Table 1: Summary of Piezometer Construction Details
 - Table 2: Summary of Piezometer Development
 - Appendix A: Cascade and SCS Drilling Bonds
 - Appendix B: Boring Logs/Construction Diagrams, Development Forms and Calibration Logs
 - Appendix C: Geophysical Record of Borehole B-123D
 - Appendix D: Certified Well Survey

Figure



LEGEND

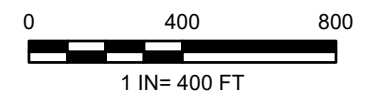
- ◆ AP-1 MONITORING WELL
- ◆ PIEZOMETER
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 04, 2021 AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN MAY 2022.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 WELL AND PIEZOMETER INSTALLATION (DGWC-121, B-122D, B-123D) AND ABANDONMENT (B-84) REPORT

TITLE
MONITORING WELL AND PIEZOMETER LOCATION MAP

CONSULTANT	YYYY-MM-DD	2022-05-10
	PREPARED	JVW
wsp GOLDER	DESIGN	JVW
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

THIS SHEET HAS BEEN MODIFIED FROM ANS.B

Tables

TABLE 1
SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DETAILS
 Georgia Power Company - Plant McDonough

Borehole ID	Latitude	Longitude	NAD 83 Northing	NAD 83 Easting	Elevation On Top Of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Ground Surface Elevation at Concrete Pad (feet NAVD88) ^[1]	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Core Available	Water Level (feet bTOC)	Date Installed
B-84 ^[2]	33.821939	-84.477307	1390411.7	2202241.5	776.24	776.27	776.6	50.0	> 50.0	39.1-49.1	NA	24.10	10/1/2019
DGWC-121	33.822829	-84.481895	1390739.7	2200849.4	764.16	764.52	764.6	50.0	46.0	39.7-49.7	Sonic Core	9.40	3/22/2022
B-122D	33.823541	-84.474897	1390992.8	2202975.4	777.03	777.32	777.3	85.0	41.0	69.8-79.8	Sonic Core	30.25	3/24/2022
B-123D	33.824203	-84.476108	1391234.4	2202608.4	781.80	778.85	779.0	160.0	31.5	110-160	Sonic Core	13.20	4/4/2022

Notes:

1. Ground surface measured at the mag nail in the concrete pad.
 2. Piezometer B-84 was abandoned on 4/28/2022 as described in the text.
- NAD - North American Datum
 NAVD88 - North American Vertical Datum 1988
 NA - Not Available
 bgs - Below ground surface
 bTOC - Below Top of Casing
 Survey Data from Metro Engineering & Surveying Co., Inc.
 ID - Identification
 PVC - Polyvinyl chloride

TABLE 2
SUMMARY OF PIEZOMETER DEVELOPMENT
 Georgia Power Company - Plant McDonough

Piezometer ID	Date Started	Time Started (hr:min)	Development Method	Measured Total Depth of Well (feet bTOC)	Initial Water level (feet bTOC)	Final Water Level (feet bTOC)	Volume of Casing (gal)	Total Volume Removed (gal)	pH (SU)	Specific Conductance (mS/cm)	Temp (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
DGWC-121	4/12/2022	11:15	Reclaimer Pump	49.37	8.68	22.95	6.6	40	6.26	0.379	19.20	4.69	33.0	3.37
B-122D	4/7/2022	11:24	Reclaimer Pump	80.78	26.56	33.89	8.84	38	6.07	0.574	18.10	4.32	35.7	2.16
B-123D	4/8/2022	13:50	Reclaimer Pump	162.86	11.76	67.01	24.63	138	6.64	0.795	20.79	4.56	-33.7	6.50

Notes:

hr:min - hours:minutes	mV - millivolts
bTOC - feet below Top of Casing	mg/L - milligrams per liter
gal - gallons	ORP - oxygen reduction potential
SU - Standard Units	DO - dissolved oxygen
mS/cm - millisiemens per centimeter	ID - Identification
°C - degrees Celcius	PVC - Polyvinyl chloride
NTU - nephelometric turbidity units	Temp - Temperature

APPENDIX A

Cascade Drilling Bond



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

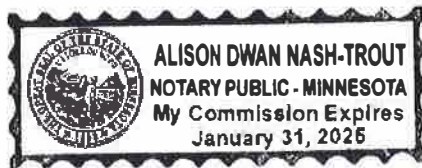
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.



By 
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

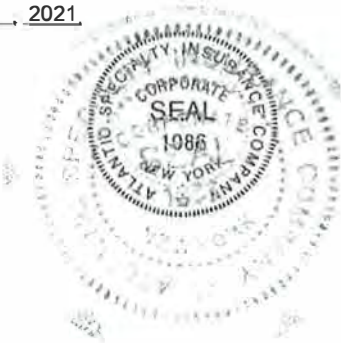



Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 12 day of April, 2021.

This Power of Attorney expires
January 31, 2025




Kara Barrow, Secretary

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on 06/30/2021
(MONTH-DAY-YEAR)

and ending on 06/30/2023
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 12th, 2021
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By Andrew P. Larsen
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2021
(MONTH-DAY-YEAR)

and ending on June 30, 2022
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)


Description of bond Water Well Contractors & Drillers

Premium: \$100.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on 05/06/2021
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America
175 Berkeley Street, Boston, MA 02116

By 
Attorney-in-fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.
Agent

2211 7th Avenue South, Birmingham, AL 35233
Address of Agent

(205) 252-9871
Telephone Number of Agent



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: 8205019-016032

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II; Richard H. Mitchell; Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America



By: [Signature]
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: [Signature]
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: [Signature]
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2022
(MONTH-DAY-YEAR)

and ending on June 30, 2023
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

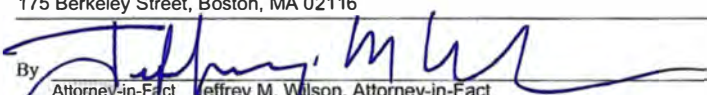
Description of bond Water Well Contractors & Drillers

Premium: \$100.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on 05/06/2021
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America
175 Berkeley Street, Boston, MA 02116

By 
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.
Agent

2211 7th Avenue South, Birmingham, AL 35233
Address of Agent

(205) 252-0871
Telephone Number of Agent



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: 8205019-016032

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II; Richard H. Mitchell; Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America



By: David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

APPENDIX B

**Boring Logs/Construction
Diagrams, Development Forms and
Calibration Logs**

RECORD OF BOREHOLE B-84

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496-01
 DRILLED DEPTH: 50.00 ft
 LOCATION: NE of security gate, along road

DRILL RIG: CME550X
 DATE STARTED: 10/1/19
 DATE COMPLETED: 10/1/19

NORTHING: 1,390,411.65
 EASTING: 2,202,242.51
 GS ELEVATION: 776.27
 TOC ELEVATION: 776.24 ft

DEPTH W.L.: 24.10
 DATE W.L.: 10/1/2019
 TIME W.L.: 1140
 GW ELEVATION:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE
0	775	0.00 - 14.50 Hydrovac to 14.5' for utilities								AquaGuard Bentonite Grout	WELL CASING Interval: 0'-39.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw WELL SCREEN Interval: 39.1'-49.1' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 36.0'-49.5' Type: Filter Media FILTER PACK SEAL Interval: 30.6'-36.0' Type: PEL-PLUG 3/8" ANNULUS SEAL Interval: 0'-30.6' Type: AquaGuard Bentonite Grout WELL COMPLETION Pad: 2' x 2' concrete Protective Casing: 8" Round Ground Flush DRILLING METHODS Soil Drill: 4.25-inch ID Hollow Stem Auger Rock Drill: N/A
15	760	14.50 - 20.00 ML-CL, silty CLAY with some gravel, brown-black, micaceous, W-PL, moist, very soft	CL-ML	761.77 14.50	S1	SS	3-1-2	3	0.75 1.50		
20	755	20.00 - 25.00 ML, sandy SILT with some gravel, brown-black, dry, W<PL, very soft	ML	753.27 20.00							
25	750	25.00 - 30.00 CL, silty CLAY with some gravel, brown-black, micaceous, W-PL, moist, very soft to soft	CL	751.27 25.00	S2	SS	3-2-3	5	0.75 1.50		
30	745	30.00 - 35.00 CL, silty CLAY with some sand, brown-black with tan, W-PL, moist	CL	746.27 30.00	S3	SS	1-2-3	5	1.50 1.50	PEL-PLUG 3/8" Bentonite Pellets	
35	740	35.00 - 39.00 CL, silty CLAY, brown-black, W-PL, wet to moist	CL	741.27 35.00	S4	SS	2-2-3	5	1.50 1.50		
40	735	39.00 - 40.00 SM, silty SAND with gravel, black-grey, moist, compact	SM	737.27 39.00	S5	SS	15-18-11	29	1.50 1.50		
40	735	40.00 - 44.00 CL, silty CLAY, brown-black, W-PL, moist, very soft to soft	CL	736.27 40.00							
45	732.27	44.00 - 45.00 ML, gravelly SILT with some sand, Log continued on next page	ML	732.27 44.00 731.27	S6	SS	7-7-8	17	1.50 1.50	0.010" Slotted	

BOREHOLE RECORD MCDONOUGH MASTER LIST.GPJ PIEDMONT.GDT 2/11/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: S. Milam

GA INSPECTOR: K. Minkara
 CHECKED BY: Brian Steele, PG
 DATE: 2/11/20



RECORD OF BOREHOLE B-84

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496-01
 DRILLED DEPTH: 50.00 ft
 LOCATION: NE of security gate, along road

DRILL RIG: CME550X
 DATE STARTED: 10/1/19
 DATE COMPLETED: 10/1/19

NORTHING: 1,390,411.65
 EASTING: 2,202,242.51
 GS ELEVATION: 776.27
 TOC ELEVATION: 776.24 ft

DEPTH W.L.: 24.10
 DATE W.L.: 10/1/2019
 TIME W.L.: 1140
 GW ELEVATION:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
45	730	brown-black, micaceous, PWR, moist 45.00 - 50.00 ML, sandy SILT with gravel, brown-black, PWR, W<PL, wet to moist, PWR, very dense	ML		45.00						Schedule 40 PVC 	WELL CASING Interval: 0'-39.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw WELL SCREEN Interval: 39.1'-49.1' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 36.0'-49.5' Type: Filter Media FILTER PACK SEAL Interval: 30.6'-36.0' Type: PEL-PLUG 3/8" ANNULUS SEAL Interval: 0'-30.6' Type: AquaGuard Bentonite Grout WELL COMPLETION Pad: 2' x 2' concrete Protective Casing: 8" Round Ground Flush DRILLING METHODS Soil Drill: 4.25-inch ID Hollow Stem Auger Rock Drill: N/A
50		Boring completed at 50.00 ft			726.27	S7	SS	25-33-24	57	1.50 1.50		
55	720											
60	715											
65	710											
70	705											
75	700											
80	695											
85	690											
90												

Abandoned 4/28/2022

BOREHOLE RECORD MCDONOUGH MASTER LIST.GPJ PIEDMONT.GDT 2/12/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: S. Milam

GA INSPECTOR: K. Minkara
 CHECKED BY: Brian Steele, PG
 DATE: 2/11/20



RECORD OF BOREHOLE DGWC-121

SHEET 1 of 2

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 50.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/22/22
 DATE COMPLETED: 3/22/22

NORTHING: 1,390,739.7
 EASTING: 2,200,849.4
 GS ELEVATION: 764.52
 TOC ELEVATION: 764.16 ft

DEPTH W.L.: 9.4'
 ELEVATION W.L.: 755.12
 DATE W.L.: 3/22/22
 TIME W.L.: 19:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 8.00 Fill material								<p>WELL CASING Interval: 0'-39.7' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 39.7'-49.7' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 37.5'-49.7' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 3.5 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 34'-37.5' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket</p> <p>ANNULUS SEAL Interval: 0'-34' Type: Aquaguard bentonite grout Quantity: 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
5	760				756.52	1		6.50 10.00		
		8.00 - 10.00 MH, CLAYEY SILT; very micaceous, little fine to coarse sand, brown/red brown, saprolitic, dry	MH		8.00					
10	755				754.52					
		10.00 - 20.00 ML, fine sandy SILT; very micaceous, little clay, brown to dark brown, saprolitic, crenulated, dry	ML		10.00	2		9.75 10.00		
15	750									
		20.00 - 29.50 SW-ML, fine SAND and SILT; very micaceous, little clay, dark brown to brown, iron staining, saprolitic, moist	SW-ML		20.00	3		9.75 10.00		
20	745				744.52					
		29.50 - 30.00 TWR, Transitionally Weathered Rock; muscovite schist	TWR		30.00					
25	740									
		30.00 - 40.00 TWR; fine to coarse gravel with fine sandy silt, little clay, friable, very micaceous, brown to dark brown, orange iron staining in soils, moist	TWR		30.00	4		9.75 10.00		
30	735				735.02					
		40.00 - 48.50 TWR; same as above	TWR		40.00	5		7.50 10.00		
35	730									
		48.50 - 50.00 muscovite SCHIST, fine to coarse grained, medium strong,			48.50					
40	725				724.52					
45	720									
50	715				716.02 714.52					

BOREHOLE RECORD: PLANT MCDONOUGH_DGWC-121, B-122D, B-123D, GPJ, PIEDMONT, GDT, 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



Log continued on next page

RECORD OF BOREHOLE DGWC-121

SHEET 2 of 2

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 50.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/22/22
 DATE COMPLETED: 3/22/22

NORTHING: 1,390,739.7
 EASTING: 2,200,849.4
 GS ELEVATION: 764.52
 TOC ELEVATION: 764.16 ft

DEPTH W.L.: 9.4'
 ELEVATION
 W.L.: 755.12
 DATE W.L.: 3/22/22
 TIME W.L.: 19:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		slightly to moderately weathered, slightly to moderately fractured, some iron staining Boring completed at 50.00 ft							WELL CASING Interval: 0'-39.7' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 39.7'-49.7' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 37.5'-49.7' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 3.5 x 50 lb bag FILTER PACK SEAL Interval: 34'-37.5' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket ANNULUS SEAL Interval: 0'-34' Type: Aquaguard bentonite grout Quantity: 2 bags Aquaguard + 40 gal water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic	
55	710									
60	705									
65	700									
70	695									
75	690									
80	685									
85	680									
90	675									
95	670									
100	665									

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



RECORD OF BOREHOLE B-122D

SHEET 1 of 2

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 85.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/24/22
 DATE COMPLETED: 3/24/22

NORTHING: 1,390,992.8
 EASTING: 2,202,975.4
 GS ELEVATION: 777.32
 TOC ELEVATION: 777.03 ft

DEPTH W.L.: 30.25
 ELEVATION W.L.: 747.07
 DATE W.L.: 3/25/22
 TIME W.L.: 8:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO		
0	775	0.00 - 10.00 FILL, CL, SILTY CLAY, moist, micaceous, trace of organics; air knifed for utility clearance							<p>WELL CASING Interval: 0'-69.8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 69.8'-79.8' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 67.8'-85' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 5 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 64.2'-67.8' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket</p> <p>ANNULUS SEAL Interval: 0'-64.2' Type: Aquaguard bentonite grout Quantity: 3 batches of 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
5	770				1	NA	10.00		
10	765	10.00 - 20.00 CL, SILTY CLAY, moist, high plasticity, little fine to coarse gravel, orange to brown, schist fragments	CH			2	8.50 10.00		
15	760				2	8.50	10.00		
20	755	20.00 - 30.00 SP-SM, SAND and SILT, dark brown, iron staining, low plasticity, weathered boulder encountered, muscovite, biotite schist boulder				3	6.50 10.00		
25	750		SP-SM			3	6.50	10.00	
30	745	30.00 - 40.00 SP-SM, SAND, moist, dark gray, fine grained, trace of organics, rounded shape				4	9.75 10.00		
35	740		SP-SM			4	9.75	10.00	
40	735	40.00 - 41.00 SP-SM, SILTY SAND, dark brown, little iron staining, fine, rounded shape				5	9.75 10.00		
45	730	41.00 - 50.00 muscovite biotite SCHIST, strong, fresh to slightly weathered, slightly fractured, fine to coarse grains, little iron staining				5	9.75	10.00	
50	727.32	Log continued on next page							

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D, GPJ, PIEDMONT, GDT, 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



RECORD OF BOREHOLE B-122D

SHEET 2 of 2

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 85.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/24/22
 DATE COMPLETED: 3/24/22

NORTHING: 1,390,992.8
 EASTING: 2,202,975.4
 GS ELEVATION: 777.32
 TOC ELEVATION: 777.03 ft

DEPTH W.L.: 30.25
 ELEVATION W.L.: 747.07
 DATE W.L.: 3/25/22
 TIME W.L.: 8:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		50.00 - 60.00 Muscovite biotite SCHIST, strong, fresh, unfractured, fine to coarse grains		[Graphic Log Pattern]	50.00					<p>WELL CASING Interval: 0'-69.8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 69.8'-79.8' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 67.8'-85' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 5 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 64.2'-67.8' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket</p> <p>ANNULUS SEAL Interval: 0'-64.2' Type: Aquaguard bentonite grout Quantity: 3 batches of 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
725						6	6.50 10.00			
55										
720										
60		60.00 - 65.00 Same as above			717.32 60.00					
715										
65		65.00 - 70.00 muscovite biotite SCHIST, strong, fresh to slightly weathered, slightly fractured, fine to coarse grained, traces of iron staining			712.32 65.00	7	9.50 10.00			
710										
70		70.00 - 73.00 Same as above, some iron staining, slightly to moderately fractured			707.32 70.00					
705										
75		73.00 - 80.00 muscovite biotite SCHIST, strong fresh, unfractured, fine to coarse grained			704.32 73.00	8	9.20 10.00			
700										
80		80.00 - 85.00 muscovite biotite SCHIST, strong fresh to slightly weathered, slightly fractured, fine to coarse grained, trace to little iron staining			697.32 80.00	9	5.00 5.00			
695										
85		Boring completed at 85.00 ft			692.32					
690										
90										
685										
95										
680										
100										

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



RECORD OF BOREHOLE B-123D

SHEET 1 of 4

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 160.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/25/22
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4
 EASTING: 2,202,608.4
 GS ELEVATION: 778.85
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2
 ELEVATION W.L.: 765.65
 DATE W.L.: 4/4/22
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO			REC
0		0.00 - 10.00 FILL, CL, SILTY CLAY, moist, micaceous, trace of organics; Air knifed for utility clearance	CL	[Hatched Pattern]	768.85	1		NA	<p style="font-size: small;">Aquaguard Grout</p>	<p>WELL CASING Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p>ANNULUS SEAL Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
5		10.00 - 20.00 ML-CH, SILT and CLAY, moist, red, orange, brown, some fine sand, trace of fine schist gravel, micaceous	ML-CH	[Diagonal Pattern]	758.85	2	[Photo]	9.75 10.00		
10		20.00 - 28.00 Same as above	ML-CH	[Diagonal Pattern]	750.85	3	[Photo]	8.50 10.00		
15		28.00 - 30.00 ML, sandy SILT, moist, gray, fine, trace of coarse gravel	ML	[Vertical Lines]	748.85					
20		30.00 - 31.50 Same as above	ML	[Vertical Lines]	747.35					
25		31.50 - 40.00 muscovite biotite SCHIST, fine grained, strong, slightly to moderately weathered, slight, fractured, some iron staining		[Wavy Pattern]	738.85	4	[Photo]	9.75 10.00		
30		40.00 - 50.00 muscovite biotite garnet SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, traces iron staining		[Wavy Pattern]	728.85	5	[Photo]	7.50 10.00		
35		Log continued on next page								

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D.GPJ_PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



RECORD OF BOREHOLE B-123D

SHEET 2 of 4

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 160.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/25/22
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4
 EASTING: 2,202,608.4
 GS ELEVATION: 778.85
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2
 ELEVATION W.L.: 765.65
 DATE W.L.: 4/4/22
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		50.00 - 60.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, traces of iron staining		[Graphic Log Pattern]	50.00					<p>WELL CASING Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p>ANNULUS SEAL Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
725						6	9.30 10.00			
55										
720										
60		60.00 - 70.00 muscovite biotite chlorite SCHIST, fine to coarse grained, strong, fresh, unfractured to slightly fractured, trace of iron staining		[Graphic Log Pattern]	718.85 60.00			7		
715										
65										
710										
70		70.00 - 80.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, unfractured to slightly weathered, slightly fractured, secondary mineralization of fractures, trace of iron staining		[Graphic Log Pattern]	708.85 70.00				8	9.50 10.00
705										
75										
700										
80		80.00 - 90.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, unfractured to slightly weathered, slightly fractured, secondary mineralization of fractures, trace of iron staining		[Graphic Log Pattern]	698.85 80.00				9	7.50 10.00
695										
85										
690										
90		90.00 - 100.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, fresh to slightly weathered, unfractured to slightly fractured		[Graphic Log Pattern]	688.85 90.00				10	8.00 10.00
685										
95										
680										
100		Log continued on next page			678.85					

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D, GPJ - PIEDMONT, GDT, 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



RECORD OF BOREHOLE B-123D

SHEET 3 of 4

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 160.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/25/22
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4
 EASTING: 2,202,608.4
 GS ELEVATION: 778.85
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2
 ELEVATION W.L.: 765.65
 DATE W.L.: 4/4/22
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO		
100		100.00 - 110.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, fresh to slightly weathered, unfractured to slightly fractured		[Graphic Log Pattern]	100.00				<p>WELL CASING Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p>ANNULUS SEAL Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
675					11	9.75 10.00			
105									
670									
110		110.00 - 120.00 muscovite Biotite SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, secondary mineralization of fractures with calcite @ 114' bgs, measured -0.018 gallons per minute (gpm) from borehole geophysics heat-pulse flow meter (HPFM), trace vein quartz		[Graphic Log Pattern]	668.85 110.00		12		
665									
115									
660									
120		120.00 - 130.00 Same as above. Water producing fracture at 129.5' identified using borehole geophysics		[Graphic Log Pattern]	658.85 120.00		13	9.75 10.00	
655									
125									
650									
130		130.00 - 140.00 Same as above; Trace secondary mineralization of calcite within fractures @ 131 bgs, water producing fracture at 130.5' identified using borehole geophysics, measured -0.027 gallons per minute (gpm) from HPFM		[Graphic Log Pattern]	648.85 130.00		14	9.00 10.00	
645									
135									
640									
140		140.00 - 150.00 muscovite biotite, garnet SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, calcite precipitation @ 145' bgs		[Graphic Log Pattern]	638.85 140.00		15	9.00 10.00	
635									
145									
630									
150		Log continued on next page			628.85				

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D, G.P.J. - PIEDMONT, GDT. 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



RECORD OF BOREHOLE B-123D

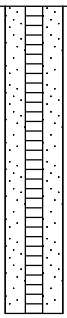
SHEET 4 of 4

PROJECT: SCS Plant McDonough
 PROJECT NUMBER: GL166849621
 DRILLED DEPTH: 160.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T
 Truck-Mounted Sonic
 DATE STARTED: 3/25/22
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4
 EASTING: 2,202,608.4
 GS ELEVATION: 778.85
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2
 ELEVATION W.L.: 765.65
 DATE W.L.: 4/4/22
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO			REC
150		150.00 - 160.00 Same as above; calcite @ 157.5' bgs		[Graphic Log Pattern]	150.00				<p>WELL CASING Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p>FILTER PACK SEAL Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p>ANNULUS SEAL Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>	
625							16			9.75 10.00
155					618.85					
160		Boring completed at 160.00 ft								
620										
160										
615										
165										
610										
170										
605										
175										
600										
180										
595										
185										
590										
190										
585										
195										
580										
200										

BOREHOLE RECORD PLANT MCDONOUGH_DGWC-121, B-122D, B-123D, GPJ_PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/10/22



WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER 166849621 Plant McDonough WELL ID: GW-121

WELL DIA (in) 2

DEVELOPED BY C. Mikilins DATE OF INSTALL. 3/22/22

W.L. BEFORE DEVEL. 8.68 / 953 DATE 4/12/22 WL AFTER DEVEL. 30.7 / 1415 DATE 4/12/22

STARTED DEVEL. 4/12/22 / 1115 COMPLETED DEVEL. 4/12/22 / 1410

WELL DEPTH: BEFORE DEVEL. 49.37 WELL DEPTH: AFTER DEVEL. 49.38

STANDING WATER COLUMN (FT.) 40.69 STANDING WELL VOLUME 6.63 gal.

SCREEN INTERVAL 39.7 - 49.7 DRILLING WATER LOSS - gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS	
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)		
4/12/22 1115												Pump On pump 1 off bottom
1120	1	0.2	13.15	6.56	375.25	18.50	OVER	brown	1.50	-27.3		Surge
1125	2	0.2	15.32	6.47	391.28	18.19	Over	brown	2.29	-36		Surge
1130	4	0.4	20.25	6.51	350.43	17.85	Over	brown	0.31	-30.5		Surge
1135	6	0.4	27.2	6.66	321.67	17.90	over	brown	0.81	-23.0		Surge
1145	10	0.4	37.85	6.62	322.63	17.89	37.2	Clear	1.02	-14.1		surge move pump up 3ft
1150	12	0.4	39.9	6.56	327.58	17.91	54	Clear	0.97	-17.6		Surge
1155	14	0.4	40	6.46	339.63	18.03	32.7	Clear	0.95	-12.1		Surge move pump up 3ft
1158	15.2		40.4									Well Dry
1222	15.2		19.35				0					Pump ON allow Recharge
1225	16	0.4	22.60				over	brown				IPAD Overheat Pump off
1315	16						AT					Pump ON
1320	19	0.4	27.6	6.33	378.48	18.67	19.7	clear	5.24	15.1		Surge
1325	20	0.4	31.4	6.32	388.26	18.48	15.8	clear	5.24	22.1		Surge move pump up to top of
1330	22	0.4	37.3	6.39	375.71	18.64	67.5	brown	5.79	25.4		Surge
1335	24	0.4										Well Dry Pump Off Screen
1355	24	0.4	20.15									Pump ON
1400	26	0.4	26.5	6.33	372.46	19.53	62.6	Clear	4.58	32.9		
1410	30	0.4	34.2	6.31	384.93	18.74	48.7	clear	4.98	30.2		Switch to low flow
= TOTAL VOLUME REMOVED (gal.)												

DEVELOPMENT METHOD: _____

NOTES: _____

PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: Plant McDonough		Page: 1 of 2
Well ID: DGWC-121	Date: 4/12/22	Water Level (ft): 30.7	Time (WL): 1415
Well Diameter (in): 2	Well Depth (ft): 49.38	Water Column (ft): 18.68	Well Volume (gal): 3.04
Start Purge: 1415	End Purge: 1550	Top of Pump (ft): 42	3 Well Volume (gal): 9.13
Evacuation Method: Low-flow		Volume Removed (gal): 6.35 ^{cm} 9.53 gal	
Evacuation Equipment: Geotech Dedicated Pump Reclaimer		Purging Personnel: C. Mikilitus	
Field probe: Horiba U-55 Aquatroll	Serial #: 883561	Weather: 80° Sunny	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BGS)
1415									30.7
1420								25.0	30.05
1425								45.5	28.10
1430								33.3	27.70
1435								16.2	26.60
1440								17.2	27.20
1450								14.6	26.80
1455								11.2	26.50
1500								11.18	26.90
1505								10.66	26.4
1510								10.68	26.2
1515								8.70	25.9
1520								7.63	25.4
1525								6.82	23.4
1530								6.53	22.9
1535								5.81	22.85
1540								4.83	22.63
1545								4.97	22.95

Stabilization Criteria (EPA Region 4 Groundwater sampling stabilization criteria, SESDPROC-301-R3, 2013):
 pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or ± 0.2 mg/L (whichever is greater), Turbidity value should be less than 10 NTU, preferably less than 5 NTU.

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER 166849621 Plant McDonough WELL ID: B-122D
 WELL DIA (in) 2
 DEVELOPED BY C. M. K. Iltis DATE OF INSTALL. 3/24/22
 W.L. BEFORE DEVEL. 26.56 4/7/22 1122 WL AFTER DEVEL. 66.05 4/7/22 1648
WL DATE TIME
 STARTED DEVEL. 4/7/22 1124 COMPLETED DEVEL. 4/7/22 1648
DATE TIME
 WELL DEPTH: BEFORE DEVEL. 80.78 WELL DEPTH: AFTER DEVEL. 80.78
 STANDING WATER COLUMN (FT.) 54.22 STANDING WELL VOLUME 8.84 gal.
 SCREEN INTERVAL 69.8' - 79.8' bgs DRILLING WATER LOSS — gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS	
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)		
1124 4/7/22			26.56									Pump On, pump 1ft off bottom
1127	0.6	0.2 gpm	30.30	6.82	443.36	22.21	56.7	Clear	7.46	-38.8		turn up pumps rate/surge
1139	3.6	0.25	41.25	6.43	467.65	19.41	93.5	Clear	5.51	-33.7		
1150	8	0.4	57.05	6.34	421.56	19.20	70.1	Cloudy	6.47	-50.2		turn up pump / surge
1200	12	0.4	70.90	6.34	438.02	19.16	90.7	Cloudy	5.25	-42.6		
1207	14.8	0.4	73.40									pump dry
1400			80.89									pump on
1405	16.8	0.4	41.18	6.37	487.09	19.65	56.9	Orange	10.22	1.8		
1415	20.8	0.4	57.47	6.27	445.57	19.41	74.2	Clear	8.91	10.9		Surge, pull pump up 2ft
1425	24.8	0.4	71.3	7.37	377.0	19.25	12.8	Clear	10.75	-157.6		pump dry
1630		0.4	29.08									pump on / more pump up 3ft
1640	28.8	0.4	53.52	6.11	553.58	19.28	10.56	Clear	5.89	13.6		
1645	30.8	0.4	62.15	6.28	489.78	19.50	19.8	Clear	10.38	1.7		
1648			66.05									pump off, went dry
= TOTAL VOLUME REMOVED (gal.)												

DEVELOPMENT METHOD: Reclaimer pump

NOTES: _____

PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: Plant McDonough		Page: <u>1</u> of <u>2</u>
Well ID: B-1220	Date: 4/8/22	Water Level (ft): 27.92	Time (WL): 930
Well Diameter (in): 2	Well Depth (ft): 80.78	Water Column (ft): 52.86	Well Volume (gal): 8.62
Start Purge: 1010	End Purge: 1300	Top of Pump (ft): 74' bgs	3 Well Volume (gal): 25.8
Evacuation Method: Low-flow		Volume Removed (gal): 6.45	
Evacuation Equipment: Geotech Dedicated Pump Reclaimer		Purging Personnel: C. M. Kilitus	
Field probe: Honda U-53 Aquatroll	Serial #: 883561	Weather: 60° Sunny	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BGS)
1010								2	29.3 27.92
1015			6.07					29.3	33.03 28.3
1024			6.08					10.20	32.72 32.05
1027			6.07					13.49	32.99 32.72
1030			6.07					9.60	32.98
1037			6.07					11.36	32.92
1042			6.07					9.61	32.38
1047			6.07					9.31	32.10
1052			6.07					10.23	31.66
1057								9.96	31.58
1102								13.98	32.15
1107								11.98	32.39
1112								14.10	32.65
1117								14.10	32.63
1122								19.5	32.74
1127								17.8	32.80
1132								17.3	32.95
1137								16.8	32.90

Stabilization Criteria (EPA Region 4 Groundwater sampling stabilization criteria, SESDPROC-301-R3, 2013):
 pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or ± 0.2 mg/L (whichever is greater), Turbidity value should be less than 10 NTU, preferably less than 5 NTU.

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER 166849621 Plant McDonough WELL ID: B-1230 B-1230

WELL DIA (in) 2

DEVELOPED BY C. Miklins DATE OF INSTALL. 4/4/22

W.L. BEFORE DEVEL. 11.76 / 4/9/22 / 1320 WL AFTER DEVEL. 62.5 / 1500 / 4/11/22

STARTED DEVEL. 4/9/22 / 1350 COMPLETED DEVEL. 4/11/22 / 1500

WELL DEPTH: BEFORE DEVEL. 162.86 BTOC WELL DEPTH: AFTER DEVEL. 162.86

STANDING WATER COLUMN (FT.) 151.1 STANDING WELL VOLUME 24.63 gal.

SCREEN INTERVAL 110' - 160' DRILLING WATER LOSS - gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS	
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)		
4/8/22												
1350	—	0.4	11.76	—								Pump on 2ft from bottom
1405	6	0.4	29.92	7.40	360.43	18.92	62.3	cloudy	4.54	-4.7	Surge	
1415	10	0.4	50.1	7.89	364.40	18.92	40	cloudy	4.67	-9.7	move pump up 5ft	ft Surge
1430	16	0.4	71.4	7.61	409.84	18.81	13.43	cloudy	4.58	-6.6	Surge	
1445	22	0.4	55.2	7.40	449.21	18.79	54.5	cloudy	3.68	-6.3	surge, move pump up 5ft	up 5ft
1500	28	0.4	55.1	7.23	558.51	18.79	21.7	clear	3.20	-45.2		
1515	34	0.4	56.4	7.09	693.88	18.48	66.3	clear	3.47	-70.3	Surge move pump up 5ft	pump up 5ft
1530	40	0.4	108.1	7.03	789.04	18.21	47.2	clear	5.05	-67.5	Surge	
1545	46	0.4	114.72	6.97	829.2	18.19	58	clear	6.71	-61.9	Surge move pump up 5ft	pump up 5ft
1600	52	0.4	117.66	7.00	792.92	19.08	41.7	clear	6.98	-59.6	Surge	
1615	58	0.4	119.71	7.07	682.55	18.09	71	cloudy	5.46	-58.6	Surge move pump up 5ft	up 5ft
1620	60	0.4									pump off	
4/11/22 1030	60	0.4	10.98									Pump ON raised 30' off bottom
1035	62	0.4	22.25	6.76	653.49	18.94	70	cloudy	4.48	-2.1	Surge	
1100	72	0.4	51.45	6.54	781.74	19.41	77.3	cloudy	3.91	-14.1	Surge	
1115	76	0.4	63.15	6.56	775.63	20.16	18.6	clear	3.70	-20.2	Surge move pump up 5'	up 5'
1130	82	0.4	75.47	6.51	844.78	20.32	13.0	clear	2.85	-31.0	Surge	
1145	88	0.4	82.25	6.54	841.74	20.63	11.8	clear	2.85	-33.2	Surge	
1200	94	0.4	88.16	6.62	903.67	20.31	11.32	clear	4.23	-34.7	Surge	
1215	100 gal	0.4	92.80	6.70	901.00	20.70	8.15	clear	5.52	-35.3	Surge move pump up 5'	pump up 5'
1230	106	0.4	96.60	6.77	862.20	20.88	18.5	clear	6.04	-38.8	Surge	
1245	112	0.4	100.45	6.90	895.49	20.58	9.86	clear	8.79	-36.5	Surge move pump up 5'	pump up 5'
1300	118	0.4	103.30	6.73	828.79	20.35	8.28	clear	6.98	-31.1	Surge	
1315	124	0.4	104.27	6.72	842.05	20.36	59.5	cloudy	7.46	-28.8	Surge move pump up 5'	pump up 5'
1325	126	0.4	106.9								Well dry, Pump off	off
1445	126	0.4	60.02								pump on	
1500	132	0.4	71.69	6.86	852.61	20.30	13.8	clear	8.67	-70.1	→	Switch to low flow lower pump to 25' from bottom

= TOTAL VOLUME REMOVED (gal.)

DEVELOPMENT METHOD: _____

NOTES: _____

PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: Plant McDonough		Page: 1 of 2
Well ID: B-123D	Date: 4/11/22	Water Level (ft): 68.5	Time (WL): 1500
Well Diameter (in): 2	Well Depth (ft): 162.86	Water Column (ft): 94.36	Well Volume (gal): 15.38
Start Purge: 1500	End Purge: 1620	Top of Pump (ft): 133	3 Well Volume (gal): 46.14
Evacuation Method: Low-flow		Volume Removed (gal): 6.35	
Evacuation Equipment: Geotech Dedicated Pump Reclaimer		Purging Personnel: C. Mikulitis	
Field probe: Horiba U-58 Aquatroll	Serial #: 883561	Weather: 50° Cloudy	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BGS)
1500								—	68.5
1505								—	—
1510								12.29	73.4
1515								11.7	73.2
1520								9.47	72.38
1525								9.38	71.51
1530								9.73	71.24
1535								11.36	70.68
1540								9.92	70.05
1545								9.04	69.28
1550								7.20	68.90
1555								6.57	68.35
1600								6.19	68.05
1605								5.76	67.70
1610								4.75	67.34
1615								4.94	67.20
1620								4.56	67.01

Stabilization Criteria (EPA Region 4 Groundwater sampling stabilization criteria, SESDPROC-301-R3, 2013):
 pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or ± 0.2 mg/L (whichever is greater), Turbidity value should be less than 10 NTU, preferably less than 5 NTU.

Low-Flow Test Report:

Test Date / Time: 4/12/2022 2:17:01 PM

Project: 166849621 Plant McDonough Low-Flow Test

DGWC-121

Operator Name: C Mikilitus

Location Name: Device Location Initial Depth to Water: 30.7 ft	Estimated Total Volume Pumped: 36106.668 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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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 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/12/2022 2:17 PM	00:00	6.29 pH	20.65 °C	381.40 µS/cm	4.49 mg/L		30.2 mV	30.70 ft	400.00 ml/min
4/12/2022 2:22 PM	05:00	6.35 pH	19.81 °C	379.38 µS/cm	1.07 mg/L	25.00 NTU	3.5 mV	30.05 ft	400.00 ml/min
4/12/2022 2:27 PM	10:00	6.34 pH	19.59 °C	378.36 µS/cm	1.09 mg/L	45.50 NTU	3.4 mV	28.10 ft	400.00 ml/min
4/12/2022 2:32 PM	15:00	6.29 pH	19.52 °C	382.18 µS/cm	2.87 mg/L	33.30 NTU	13.5 mV	27.70 ft	400.00 ml/min
4/12/2022 2:37 PM	20:00	6.28 pH	19.43 °C	379.06 µS/cm	3.30 mg/L	16.20 NTU	20.4 mV	26.60 ft	400.00 ml/min
4/12/2022 2:42 PM	25:00	6.28 pH	19.25 °C	378.48 µS/cm	3.49 mg/L	17.20 NTU	21.9 mV	27.20 ft	400.00 ml/min
4/12/2022 2:53 PM	36:37	6.27 pH	19.10 °C	377.76 µS/cm	3.85 mg/L	14.60 NTU	30.0 mV	26.80 ft	400.00 ml/min
4/12/2022 2:58 PM	41:37	6.26 pH	19.30 °C	379.27 µS/cm	3.91 mg/L	11.20 NTU	26.9 mV	26.50 ft	400.00 ml/min
4/12/2022 3:03 PM	46:37	6.27 pH	19.28 °C	380.49 µS/cm	3.80 mg/L	11.18 NTU	32.7 mV	26.90 ft	400.00 ml/min
4/12/2022 3:07 PM	50:16	6.26 pH	19.57 °C	379.20 µS/cm	3.73 mg/L	10.66 NTU	29.4 mV	26.40 ft	400.00 ml/min
4/12/2022 3:12 PM	55:16	6.26 pH	19.60 °C	379.92 µS/cm	3.72 mg/L	10.68 NTU	26.8 mV	26.20 ft	400.00 ml/min
4/12/2022 3:17 PM	01:00:16	6.26 pH	20.15 °C	380.39 µS/cm	3.68 mg/L	7.63 NTU	27.4 mV	25.90 ft	400.00 ml/min
4/12/2022 3:22 PM	01:05:16	6.26 pH	19.41 °C	379.46 µS/cm	3.33 mg/L	6.82 NTU	26.5 mV	25.40 ft	400.00 ml/min
4/12/2022 3:27 PM	01:10:16	6.26 pH	19.62 °C	380.55 µS/cm	3.47 mg/L	6.53 NTU	26.8 mV	23.40 ft	400.00 ml/min
4/12/2022 3:32 PM	01:15:16	6.26 pH	19.50 °C	381.13 µS/cm	2.75 mg/L	5.81 NTU	29.2 mV	22.90 ft	400.00 ml/min
4/12/2022 3:37 PM	01:20:16	6.26 pH	19.28 °C	380.88 µS/cm	2.82 mg/L	4.83 NTU	24.3 mV	22.85 ft	400.00 ml/min
4/12/2022 3:42 PM	01:25:16	6.26 pH	19.28 °C	380.38 µS/cm	3.17 mg/L	4.97 NTU	24.8 mV	22.63 ft	400.00 ml/min

4/12/2022 3:47 PM	01:30:16	6.26 pH	19.20 °C	378.85 µS/cm	3.37 mg/L	4.69 NTU	33.0 mV	<u>22.95</u> ft	400.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 4/8/2022 10:18:10 AM

Project: Plant McDonough 166849621

Low Flow B-122D

Operator Name: C. Mikilitus

Location Name: Device Location Initial Depth to Water: 27.92 ft	Estimated Total Volume Pumped: 24430 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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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 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/8/2022 10:18 AM	00:00	6.08 pH	18.66 °C	568.22 µS/cm	4.74 mg/L	-	27.8 mV	27.92 ft	150.00 ml/min
4/8/2022 10:19 AM	00:50	6.04 pH	18.66 °C	634.17 µS/cm	4.11 mg/L	-	29.5 mV	-	150.00 ml/min
4/8/2022 10:22 AM	03:50	6.07 pH	18.70 °C	582.31 µS/cm	3.59 mg/L	29.30 NTU	30.5 mV	28.30 ft	150.00 ml/min
4/8/2022 10:25 AM	06:50	6.08 pH	18.51 °C	553.89 µS/cm	3.88 mg/L	10.20 NTU	32.9 mV	33.05 ft	150.00 ml/min
4/8/2022 10:28 AM	09:50	6.07 pH	18.50 °C	551.09 µS/cm	3.77 mg/L	13.49 NTU	33.3 mV	32.72 ft	150.00 ml/min
4/8/2022 10:31 AM	12:50	6.07 pH	18.21 °C	546.95 µS/cm	3.89 mg/L	9.60 NTU	37.0 mV	32.98 ft	150.00 ml/min
4/8/2022 10:32 AM	14:08	6.07 pH	18.15 °C	546.30 µS/cm	3.88 mg/L	-	43.1 mV	-	150.00 ml/min
4/8/2022 10:37 AM	19:08	6.07 pH	18.26 °C	544.06 µS/cm	3.77 mg/L	11.36 NTU	38.6 mV	32.92 ft	150.00 ml/min
4/8/2022 10:42 AM	24:08	6.07 pH	18.43 °C	542.80 µS/cm	3.60 mg/L	9.61 NTU	38.9 mV	32.38 ft	150.00 ml/min
4/8/2022 10:47 AM	29:08	6.07 pH	18.21 °C	538.75 µS/cm	3.67 mg/L	9.31 NTU	39.1 mV	32.10 ft	150.00 ml/min
4/8/2022 10:52 AM	34:08	6.07 pH	18.25 °C	540.21 µS/cm	3.64 mg/L	10.23 NTU	39.0 mV	31.66 ft	150.00 ml/min
4/8/2022 10:57 AM	39:08	6.08 pH	18.30 °C	537.01 µS/cm	3.56 mg/L	9.96 NTU	41.5 mV	31.58 ft	150.00 ml/min
4/8/2022 11:02 AM	44:08	6.08 pH	18.76 °C	547.83 µS/cm	3.43 mg/L	13.98 NTU	40.6 mV	32.15 ft	150.00 ml/min
4/8/2022 11:07 AM	49:08	6.08 pH	18.92 °C	543.69 µS/cm	3.17 mg/L	11.98 NTU	48.0 mV	32.39 ft	150.00 ml/min
4/8/2022 11:12 AM	54:08	6.08 pH	19.20 °C	546.28 µS/cm	2.93 mg/L	14.10 NTU	38.8 mV	32.65 ft	150.00 ml/min
4/8/2022 11:17 AM	59:08	6.09 pH	19.23 °C	534.00 µS/cm	2.93 mg/L	14.10 NTU	38.6 mV	32.63 ft	150.00 ml/min
4/8/2022 11:22 AM	01:04:08	6.09 pH	19.72 °C	537.75 µS/cm	2.96 mg/L	19.50 NTU	38.7 mV	32.74 ft	150.00 ml/min

4/8/2022 11:27 AM	01:09:08	6.08 pH	20.08 °C	536.91 µS/cm	2.87 mg/L	17.80 NTU	36.8 mV	32.80 ft	150.00 ml/min
4/8/2022 11:32 AM	01:14:08	6.09 pH	19.41 °C	532.00 µS/cm	2.93 mg/L	17.30 NTU	37.2 mV	32.95 ft	150.00 ml/min
4/8/2022 11:37 AM	01:19:08	6.09 pH	19.35 °C	535.91 µS/cm	2.85 mg/L	16.80 NTU	37.8 mV	32.90 ft	150.00 ml/min
4/8/2022 11:42 AM	01:24:08	6.09 pH	18.81 °C	552.59 µS/cm	3.01 mg/L	15.70 NTU	36.1 mV	33.16 ft	150.00 ml/min
4/8/2022 11:47 AM	01:29:08	6.09 pH	18.52 °C	567.32 µS/cm	2.88 mg/L	15.00 NTU	35.2 mV	33.14 ft	150.00 ml/min
4/8/2022 11:52 AM	01:34:08	6.09 pH	18.34 °C	561.71 µS/cm	2.83 mg/L	12.70 NTU	35.2 mV	33.08 ft	150.00 ml/min
4/8/2022 11:57 AM	01:39:08	6.09 pH	18.13 °C	568.71 µS/cm	2.76 mg/L	11.70 NTU	35.0 mV	33.05 ft	150.00 ml/min
4/8/2022 12:02 PM	01:44:08	6.09 pH	18.17 °C	575.76 µS/cm	2.80 mg/L	13.38 NTU	41.4 mV	33.38 ft	150.00 ml/min
4/8/2022 12:07 PM	01:49:08	6.08 pH	18.08 °C	576.49 µS/cm	2.73 mg/L	-	34.9 mV	-	150.00 ml/min
4/8/2022 12:12 PM	01:54:08	6.08 pH	18.10 °C	578.29 µS/cm	2.67 mg/L	11.18 NTU	35.2 mV	33.45 ft	150.00 ml/min
4/8/2022 12:17 PM	01:59:08	6.08 pH	18.04 °C	576.66 µS/cm	2.63 mg/L	-	36.4 mV	-	150.00 ml/min
4/8/2022 12:22 PM	02:04:08	6.08 pH	18.13 °C	578.33 µS/cm	2.57 mg/L	8.77 NTU	42.9 mV	33.60 ft	150.00 ml/min
4/8/2022 12:27 PM	02:09:08	6.07 pH	18.63 °C	581.19 µS/cm	2.48 mg/L	-	37.6 mV	-	150.00 ml/min
4/8/2022 12:32 PM	02:14:08	6.08 pH	18.29 °C	576.59 µS/cm	2.45 mg/L	5.95 NTU	36.5 mV	33.78 ft	150.00 ml/min
4/8/2022 12:37 PM	02:19:08	6.08 pH	18.21 °C	576.36 µS/cm	2.38 mg/L	-	35.7 mV	-	150.00 ml/min
4/8/2022 12:42 PM	02:24:08	6.07 pH	18.34 °C	580.25 µS/cm	2.34 mg/L	4.98 NTU	36.2 mV	33.79 ft	150.00 ml/min
4/8/2022 12:47 PM	02:29:08	6.07 pH	18.64 °C	581.30 µS/cm	2.23 mg/L	-	35.6 mV	-	150.00 ml/min
4/8/2022 12:52 PM	02:34:08	6.07 pH	18.99 °C	573.12 µS/cm	2.26 mg/L	4.49 NTU	36.4 mV	33.85 ft	150.00 ml/min
4/8/2022 12:57 PM	02:39:08	6.08 pH	18.50 °C	570.33 µS/cm	2.21 mg/L	-	36.6 mV	-	150.00 ml/min
4/8/2022 1:01 PM	02:42:52	6.07 pH	18.10 °C	573.78 µS/cm	2.16 mg/L	4.32 NTU	35.7 mV	33.89 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 4/11/2022 3:02:26 PM

Project: 166849621 Plant McDonough Low-Flow Test B-123D

Operator Name: C Mikilitus

Location Name: Device Location Initial Depth to Water: 68.5 ft	Estimated Total Volume Pumped: 24025 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 67.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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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 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/11/2022 3:02 PM	00:00	6.80 pH	20.55 °C	861.26 µS/cm	8.62 mg/L	-	-59.5 mV	68.50 ft	300.00 ml/min
4/11/2022 3:07 PM	05:00	7.43 pH	20.97 °C	10.09 µS/cm	9.45 mg/L	-	-45.2 mV	-	300.00 ml/min
4/11/2022 3:12 PM	10:05	7.05 pH	20.33 °C	728.75 µS/cm	11.55 mg/L	12.29 NTU	-72.3 mV	73.40 ft	300.00 ml/min
4/11/2022 3:17 PM	15:05	6.90 pH	20.39 °C	662.65 µS/cm	5.59 mg/L	11.70 NTU	-37.6 mV	73.20 ft	300.00 ml/min
4/11/2022 3:22 PM	20:05	6.86 pH	20.23 °C	667.55 µS/cm	4.99 mg/L	9.47 NTU	-43.4 mV	72.38 ft	300.00 ml/min
4/11/2022 3:27 PM	25:05	6.84 pH	20.15 °C	677.24 µS/cm	4.84 mg/L	9.38 NTU	-35.8 mV	71.51 ft	300.00 ml/min
4/11/2022 3:32 PM	30:05	6.82 pH	20.13 °C	692.92 µS/cm	4.85 mg/L	9.73 NTU	-37.3 mV	71.24 ft	300.00 ml/min
4/11/2022 3:37 PM	35:05	6.80 pH	20.22 °C	711.58 µS/cm	5.07 mg/L	11.36 NTU	-41.9 mV	70.68 ft	300.00 ml/min
4/11/2022 3:42 PM	40:05	6.79 pH	20.20 °C	725.06 µS/cm	5.31 mg/L	9.92 NTU	-42.8 mV	70.05 ft	300.00 ml/min
4/11/2022 3:47 PM	45:05	6.78 pH	20.04 °C	738.35 µS/cm	5.49 mg/L	9.04 NTU	-50.6 mV	69.28 ft	300.00 ml/min
4/11/2022 3:52 PM	50:05	6.75 pH	20.07 °C	756.55 µS/cm	5.77 mg/L	7.20 NTU	-43.7 mV	68.90 ft	300.00 ml/min
4/11/2022 3:57 PM	55:05	6.74 pH	20.13 °C	763.88 µS/cm	5.92 mg/L	6.57 NTU	-42.2 mV	68.35 ft	300.00 ml/min
4/11/2022 4:02 PM	01:00:05	6.71 pH	20.26 °C	775.89 µS/cm	6.10 mg/L	6.19 NTU	-41.1 mV	68.05 ft	300.00 ml/min
4/11/2022 4:07 PM	01:05:05	6.69 pH	20.40 °C	783.65 µS/cm	6.28 mg/L	5.76 NTU	-39.3 mV	67.70 ft	300.00 ml/min
4/11/2022 4:12 PM	01:10:05	6.68 pH	20.65 °C	782.18 µS/cm	6.30 mg/L	4.75 NTU	-38.0 mV	67.34 ft	300.00 ml/min
4/11/2022 4:17 PM	01:15:05	6.66 pH	20.65 °C	788.42 µS/cm	6.41 mg/L	4.94 NTU	-36.1 mV	67.20 ft	300.00 ml/min
4/11/2022 4:22 PM	01:20:05	6.64 pH	20.79 °C	794.65 µS/cm	6.50 mg/L	4.56 NTU	-33.7 mV	67.01 ft	300.00 ml/min

Samples

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

Created using VuSitu from In-Situ, Inc.

Daily Calibration Log

Project
Field Staff

166849621 Plant McDonough
C. Mikulitus

Instrument Calibration

		Date	4/7/22	4/8/22	4/11/22	4/12/22
		Time	1020	905	910	1000
Parameter	Units	Standard	SmarTROLL SN 883561 iPad # _____	SmarTROLL SN 883561 iPad # _____	SmarTROLL SN 883561 iPad # _____	SmarTROLL SN 883561 iPad # _____
DO	% saturation	100	91.6%	100.3%	100.7%	100.2%
Conductivity	us/cm	4490	4334.9	4386.73	4314.89	4454.08
pH	S.U.	4.00	4.00	3.98	3.96	3.96
pH	S.U.	7.00	7.02	7.01	6.98	6.99
pH	S.U.	10.00	10.02	9.98	10.03	10.02
ORP	mV	228.00	227.6	222.1	221.1	220.8

Turbidity	Units	Standard	LaMotte SN 7007-1416	LaMotte SN 7007-1416	LaMotte SN 7007-1416	LaMotte SN 7007-1416
	NTU	0.0	0.02	0.27	0.05	0.04
	NTU	1.0	0.95	1.09	0.88	0.60
	NTU	10.0	10.66	10.98	10.25	10.29

		Date				
		Time				
Parameter	Units	Standard	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
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	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte 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 - Nephelometric Turbidity Units; NC - Not calibrated

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/7/2022

Sensor	RDO
--------	------------

Serial Number	878558
Last Calibrated	4/7/2022

Calibration Details

Slope	0.9164088
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.33 mg/L
Temperature	21.55 °C
Barometric Pressure	982.80 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	883561
Last Calibrated	4/7/2022

Calibration Details

Cell Constant	1.01
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	883845
Last Calibrated	3/1/2022

Calibration Details

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/7/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	170.9 mV
Temperature	21.91 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	-1.2 mV
Temperature	20.69 °C

Calibration Point 3

pH of Buffer	10.04 pH
pH mV	-172.1 mV
Temperature	20.39 °C

Slope and Offset 1

Slope	-56.99 mV/pH
Offset	-0.1 mV

Slope and Offset 2

Slope	-56.59 mV/pH
Offset	-0.1 mV

ORP

ORP Solution	ORP Standard
Offset	-0.4 mV
Temperature	20.90 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/8/2022

Sensor	RDO
Serial Number	878558
Last Calibrated	4/8/2022

Calibration Details

Slope	1.003327
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.13 mg/L
Temperature	18.16 °C
Barometric Pressure	984.44 mbar

Sensor	Conductivity
Serial Number	883561
Last Calibrated	4/8/2022

Calibration Details

Cell Constant	0.977
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
Serial Number	883845
Last Calibrated	3/1/2022

Calibration Details

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/8/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	170.6 mV
Temperature	18.52 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	-0.5 mV
Temperature	19.32 °C

Calibration Point 3

pH of Buffer	10.04 pH
pH mV	-168.8 mV
Temperature	19.44 °C

Slope and Offset 1

Slope	-56.65 mV/pH
Offset	0.6 mV

Slope and Offset 2

Slope	-55.74 mV/pH
Offset	0.6 mV

ORP

ORP Solution	ORP Standard
Offset	-5.9 mV
Temperature	18.63 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/11/2022

Sensor	RDO
--------	------------

Serial Number	878558
Last Calibrated	4/11/2022

Calibration Details

Slope	1.007237
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.15 mg/L
Temperature	18.40 °C
Barometric Pressure	994.98 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	883561
Last Calibrated	4/11/2022

Calibration Details

Cell Constant	0.961
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	883845
Last Calibrated	3/1/2022

Calibration Details

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/11/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	169.4 mV
Temperature	18.45 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	1.2 mV
Temperature	19.13 °C

Calibration Point 3

pH of Buffer	10.04 pH
pH mV	-168.7 mV
Temperature	19.55 °C

Slope and Offset 1

Slope	-55.68 mV/pH
Offset	2.3 mV

Slope and Offset 2

Slope	-56.27 mV/pH
Offset	2.3 mV

ORP

ORP Solution	ORP Standard
Offset	-6.3 mV
Temperature	18.94 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/12/2022

Sensor	RDO
Serial Number	878558
Last Calibrated	4/12/2022

Calibration Details

Slope	1.002736
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.37 mg/L
Temperature	23.20 °C
Barometric Pressure	996.14 mbar

Sensor	Conductivity
Serial Number	883561
Last Calibrated	4/12/2022

Calibration Details

Cell Constant	0.992
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
Serial Number	883845
Last Calibrated	3/1/2022

Calibration Details

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/12/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	168.4 mV
Temperature	18.41 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	0.8 mV
Temperature	18.88 °C

Calibration Point 3

pH of Buffer	10.04 pH
pH mV	-167.7 mV
Temperature	19.17 °C

Slope and Offset 1

Slope	-55.48 mV/pH
Offset	1.9 mV

Slope and Offset 2

Slope	-55.79 mV/pH
Offset	1.9 mV

ORP

ORP Solution	ORP Standard
Offset	-7.2 mV
Temperature	19.27 °C

APPENDIX C

**Geophysical Record of Borehole
B-123D**

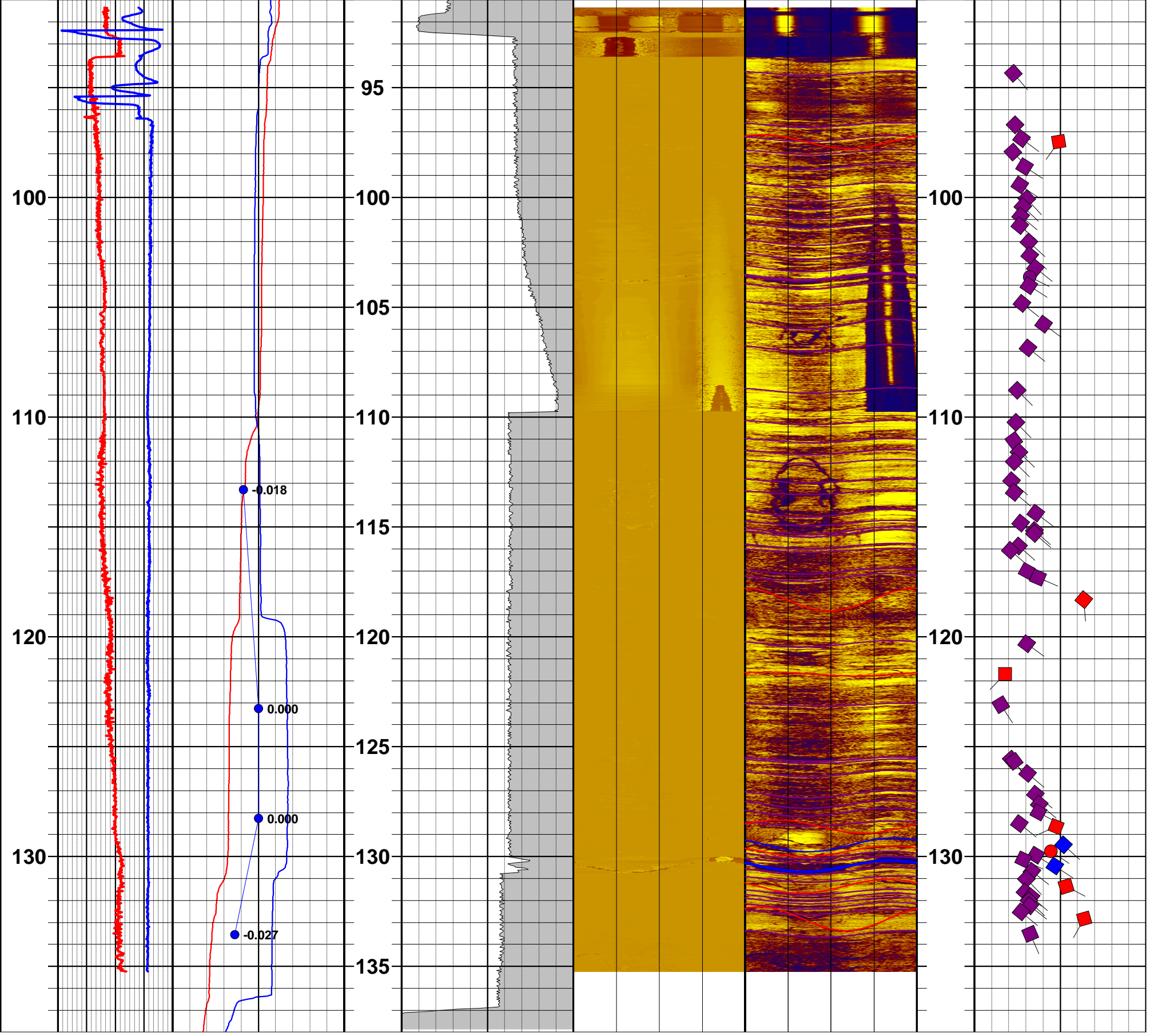
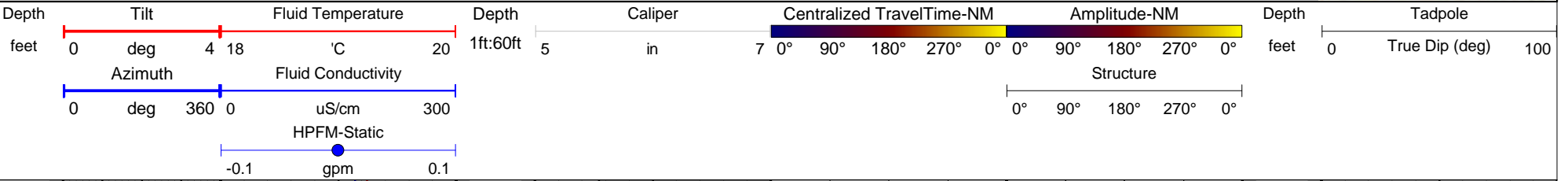


Project Title: Plant McDonough Ground Water Program
Project Number: GL166849621
Client: Georgia Power
Date: March 30, 2022

Preliminary Logs

Driller: Cascade	Casing Dia.: 5.4 in	Log Depth Ref.: Logs zeroed @ gs	Location: Plant McDonough
Drilled Depth: 140 ft bgs	Casing Material: Steel	Water Level: 22.49 ft bgs @ 7:47am	
Drill Date: March 29, 2022	Casing Depth: 92.5 ft bgs	Borehole Incl.: vertical	Log Date: March 30, 2022
Drill Method.: 6" sonic	Casing Stick-up: 1.75 ft ags	Borehole Az.: na	Logged By: Chris Bryant

Notes: B-123 was drilled from 110 to 140 ft after completion of the geophysical logging on 3-29-2022. All tools were zeroed with the probe top at the TOC and corrected to ground surface in processing. The accuracy of the orientation sensor (APS544) used in the QL40ABI-2G (ABI) acoustic televiewer is +/- 1.2 degrees for Azimuth and +/- 0.5 degrees for Tilt. The ABI images are oriented to magnetic north. Water level at the start of the static HPFM run was 23.21 ft bgs at 9:38 am, a drop of ~0.72 ft in ~2 hours, a falling head condition during the test.



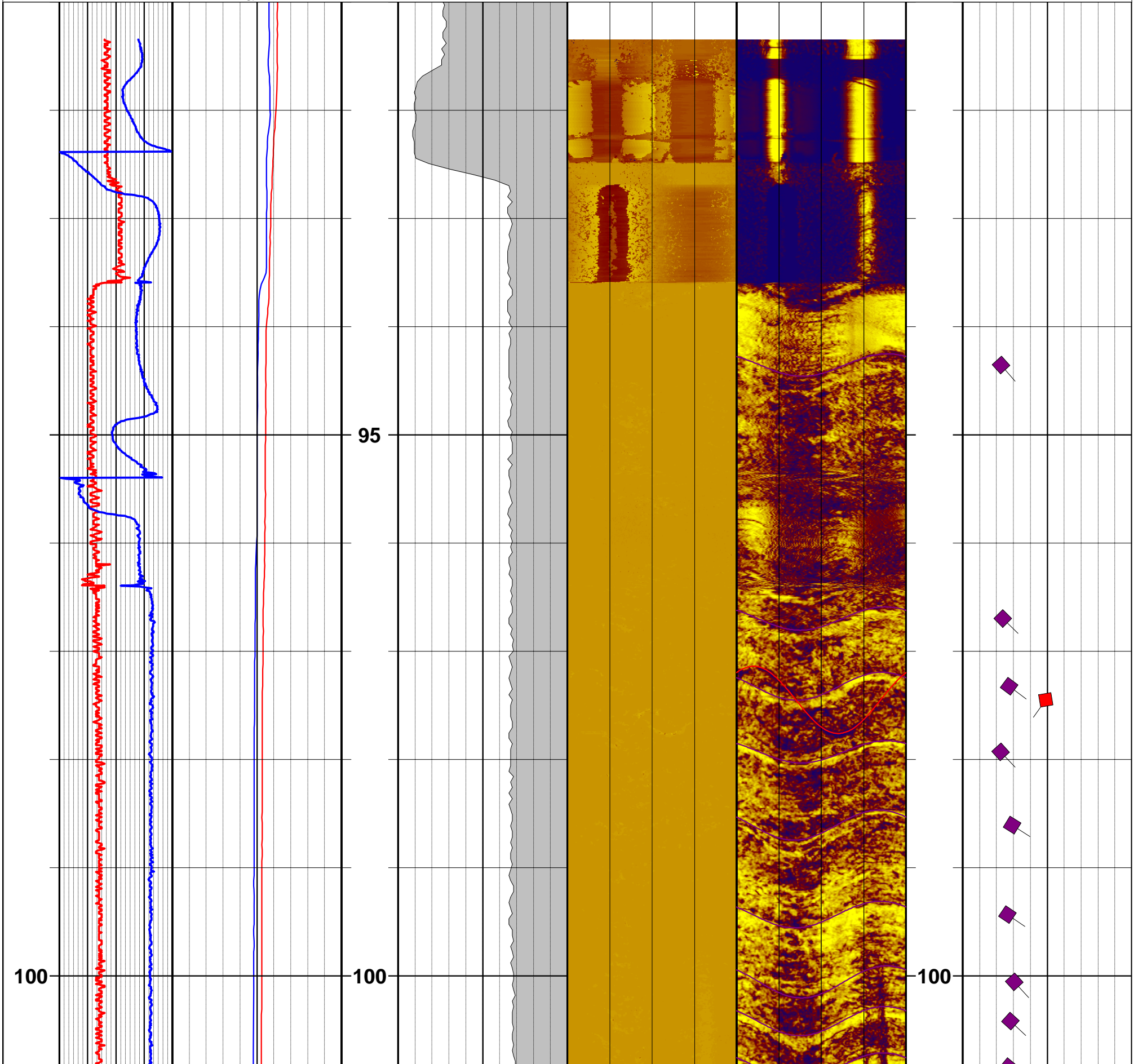
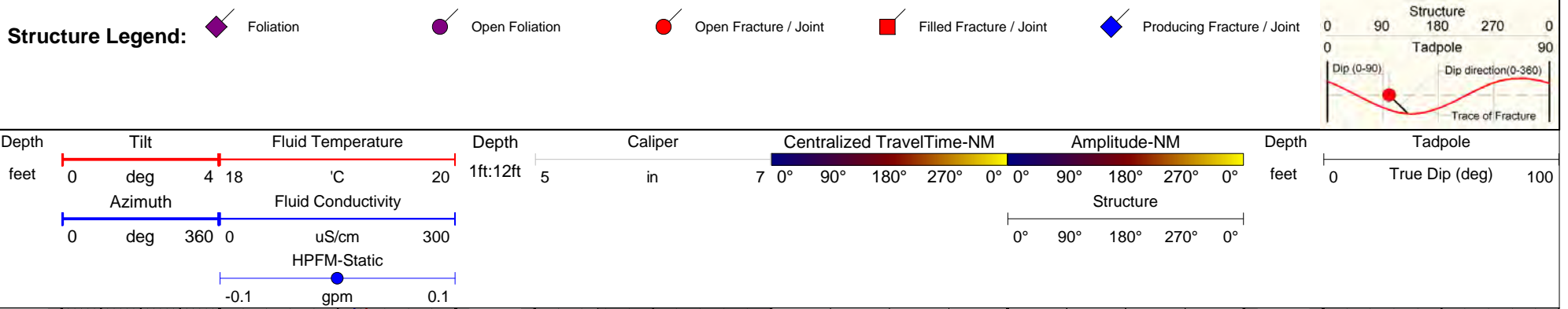


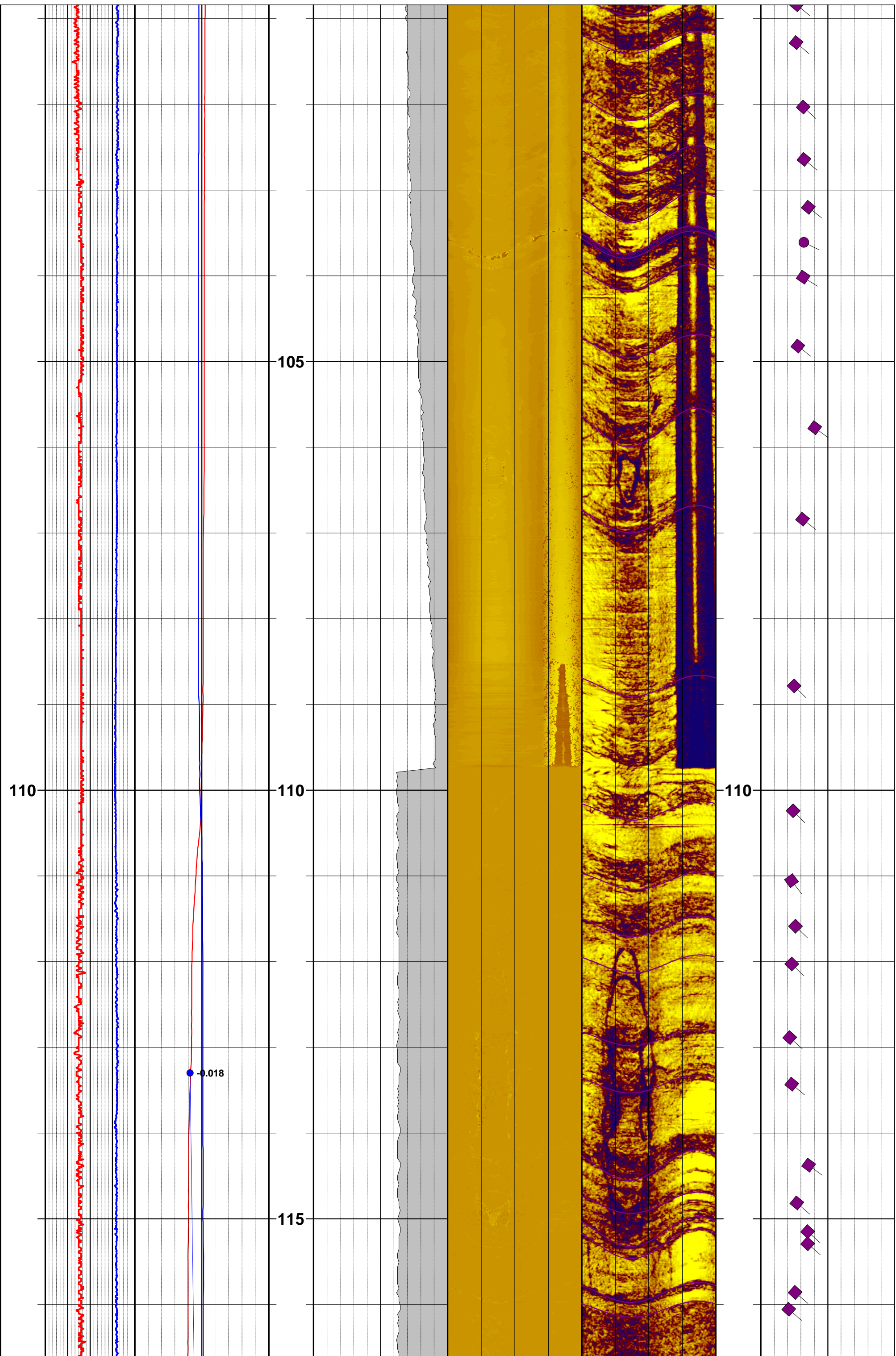
Project Title: Plant McDonough Ground Water Program
Project Number: GL166849621
Client: Georgia Power
Date: March 30, 2022

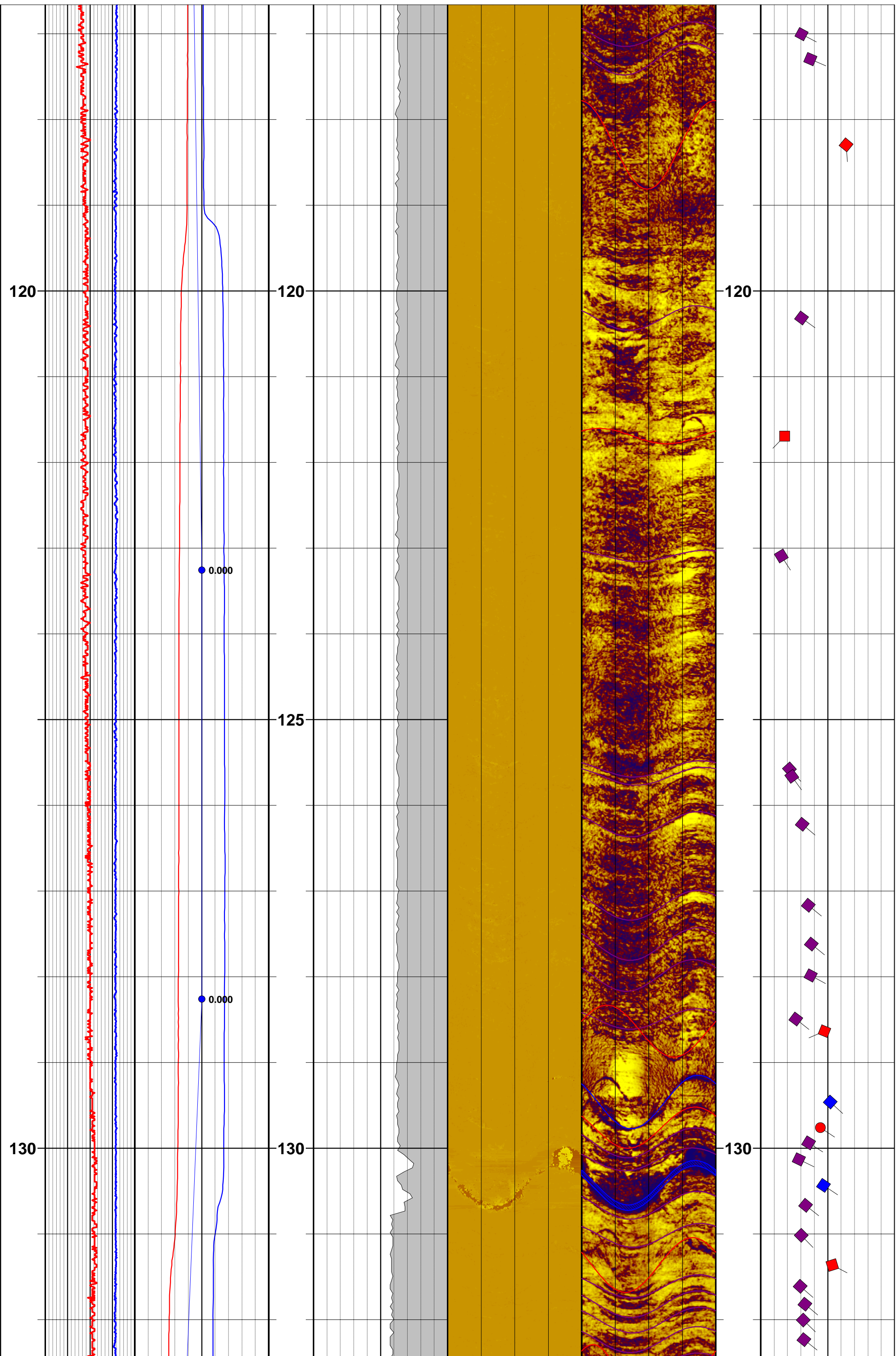
Preliminary Logs

Driller: Cascade	Casing Dia.: 5.4 in	Log Depth Ref.: Logs zeroed @ gs	Location: Plant McDonough
Drilled Depth: 140 ft bgs	Casing Material: Steel	Water Level: 22.49 ft bgs @ 7:47am	
Drill Date: March 29, 2022	Casing Depth: 92.5 ft bgs	Borehole Incl.: vertical	Log Date: March 30, 2022
Drill Method.: 6" sonic	Casing Stick-up: 1.75 ft ags	Borehole Az.: na	Logged By: Chris Bryant

Notes: B-123 was drilled from 110 to 140 ft after completion of the geophysical logging on 3-29-2022. All tools were zeroed with the probe top at the TOC and corrected to ground surface in processing. The accuracy of the orientation sensor (APS544) used in the QL40ABI-2G (ABI) acoustic televiewer is +/- 1.2 degrees for Azimuth and +/- 0.5 degrees for Tilt. The ABI images are oriented to magnetic north. Water level at the start of the static HPFM run was 23.21 ft bgs at 9:38 am, a drop of ~0.72 ft in ~2 hours, a falling head condition during the test.







120

120

120

0.000

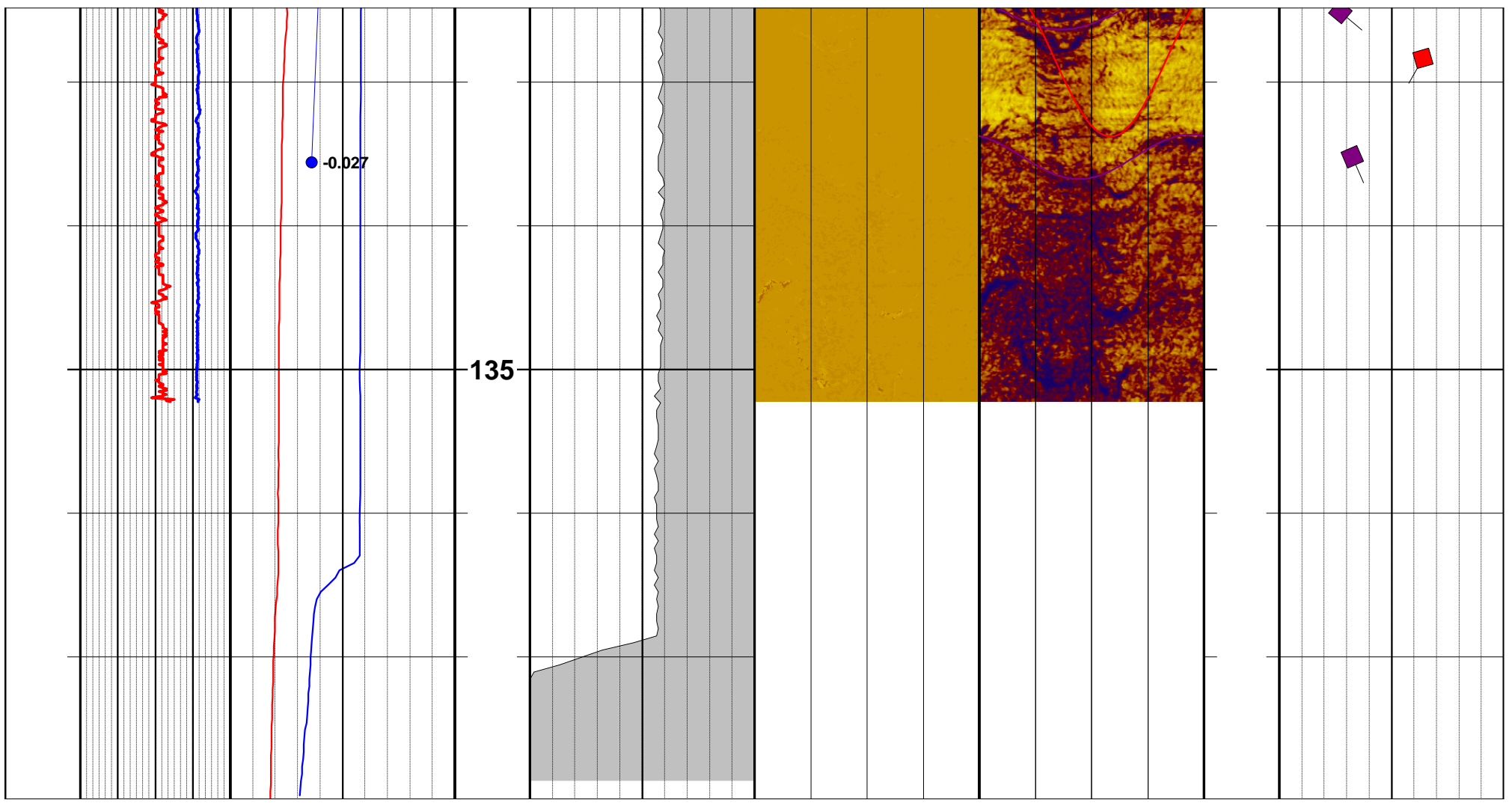
125

0.000

130

130

130



APPENDIX D

Certified Well Survey



1469 HIGHWAY 20 WEST • McDONOUGH, GA 30253
phone: 770-707-0777 fax: 770.707-0755
WWW.METRO-ENGINEERING.COM

SURVEYOR'S REPORT

SCOPE OF WORK:

Field survey of existing monitoring wells at Georgia Power Company, Plant Branch in Milledgeville, GA.

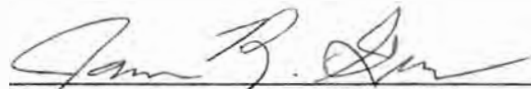
Horizontal and vertical datum was derived from RTK GPS observations with corrections received via a cellular modem utilizing the Leica "Smartnet" RTK Network and conventional surveying equipment. Horizontal datum is Georgia State Plane, West Zone, NAD83(2011) and vertical datum is NAVD88.

EQUIPMENT USED TO ESTABLISH THE MONITORING WELL LOCATIONS:

Leica GS18T GPS Receiver
Leica TS16 Total Station
Leica DNA10 Digital Level

CERTIFICATION:

I hereby certify that the center of well casing (PVC) has a horizontal accuracy of 0.5+/- feet or better using a Leica GS18T GPS (survey-grade) global positioning system receiver referencing the Georgia State Plane, West Zone, NAD83(2011) coordinate system in US survey feet. The top of well casing (PVC) elevation data was determined in feet above mean sea level based on the NAVD88 vertical datum. Vertical data was confirmed to be accurate within 0.01 foot through establishment of a closed level check loop with a Leica DNA10 digital level having a published accuracy of 0.9mm per dual-traverse kilometer.


James R. Green R.L.S. No. 2543

Date: 5/10/22



Plant McDonough
Monitoring Well Locations
May 9, 2022

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE
B-122D	N33.823541	W84.474897	1390992.06	2202975.35	777.32	1390992.8	2202975.4	777.03	777.3
B-123D	N33.824203	W84.476108	1391233.80	2202608.91	778.85	1391234.4	2202608.4	781.80	779.0
DWGC121	N33.822829	W84.481895	1390739.51	2200848.27	764.52	1390739.7	2200849.4	764.16	764.6

APPENDIX D

Well Maintenance and Repair Memorandum and Well Condition Inspection Forms

APPENDIX D

**Well Maintenance Repair
Memorandum**

TECHNICAL MEMORANDUM

DATE February 9, 2022

TO Joju Abraham, PG
Southern Company Services

CC Ben Hodges, Georgia Power Company

FROM Golder Associates USA Inc.

PLANT MCDONOUGH ASH POND 1, ASH POND 2 AND ASH POND 3/4
WELL MAINTENANCE AND REPAIR DOCUMENTATION
GEORGIA POWER COMPANY

Golder Associates USA Inc. (Golder) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant McDonough Ash Pond 1, Ash Pond 2, and Ash Pond 3/4 during the semi-annual reporting period. Repairs and maintenance were completed in accordance with 12-5-134 (5)(D)vii of the Georgia Well Standards Act (1985) for routine visual inspections of groundwater monitoring wells (i.e., at least once every five years) under the direction of a Georgia licensed professional engineer or geologist.

Plant McDonough – Well Maintenance Summary

Well ID	Date Performed	Maintenance/Repair Performed
DGWA-53	October 2021	Cleared vegetation to improve access and visibility
DGWA-71	October 2021	Cleared vegetation to improve access and visibility. Replaced protective cover lid.
DGWC-2	October 2021	Replaced protective bollard.
DGWC-4	October 2021	Cleared vegetation to improve access and visibility
DGWC-5	October 2021	Cleared vegetation to improve access and visibility
DGWC-22	October 2021	Straighten protective bollard and added concrete to base.
DGWC-30	October 2021	Cleared vegetation to improve access and visibility
B-62	October 2021	Filled annular space with Portland/bentonite grout to approximately 5" from top of casing. Added pea gravel on top of grout.
B-63	October 2021	Repaired surface cracks in concrete pad with concrete resurface/fill
B-65	October 2021	Added concrete strap over the manhole cover for security.

Well ID	Date Performed	Maintenance/Repair Performed
B-87	October 2021	Cleared vegetation to improve access and visibility
B-88	October 2021	Cleared vegetation to improve access and visibility
B-94	October 2021	Cleared vegetation to improve access and visibility
B-95	October 2021	Replace concrete apron around flush mount protective cover. Updated survey is pending.
B-111	October 2021	Cleared vegetation to improve access and visibility
B-117D	October 2021	Cleared vegetation to improve access and visibility
B-3	October 2021	Cleared vegetation to improve access and visibility
B-120D	October 2021	Cleared vegetation to improve access and visibility
B-5	October 2021	Cleared vegetation to improve access and visibility
B-59	October 2021	Cleared vegetation to improve access and visibility; Straighten protective bollard.
DGWC-37	October 2021	Straighten protective bollard.
All wells	October 2021	Well Signs were confirmed and/or installed at all locations except for B-110D, B-112D and B-113D. These locations are flush mount wells located at the toe of AP1 dike. Signs will be replaced post construction.

Golder Associates USA Inc.



Dawn L. Prell
Senior Consultant, Hydrogeologist



Rachel P. Kirkman, PG
Senior Consultant, Principal

Attachments: Photo Documentation

[https://golderassociates.sharepoint.com/sites/11950g/shared documents/300_field information/2021/09_2021 sagw/mcd_well maintenance repair memo 2.2021.docx](https://golderassociates.sharepoint.com/sites/11950g/shared%20documents/300_field%20information/2021/09_2021_sagw/mcd_well_maintenance_repair_memo_2.2021.docx)

Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP1 – DGWA-53: Cleared overgrowth from around pad.



AP1 – DGWA-71: Cleared overgrowth from around pad. Removed cracked protective cover lid and replaced with a new lid.



Southern Company CFS
Plant McDonough Oct 2021 Well O&M



AP-2/3/4 – DGWC-2: Replaced front left bollard.



Southern Company CFS
Plant McDonough Oct 2021 Well O&M

AP-2/3/4 – DGWC-4: Cleared overgrowth from around pad.



AP-2/3/4 – DGWC-5: Cleared overgrowth from around pad.



Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP-2/3/4 – DGWC-22: Straightened bollard and added additional concrete to base.

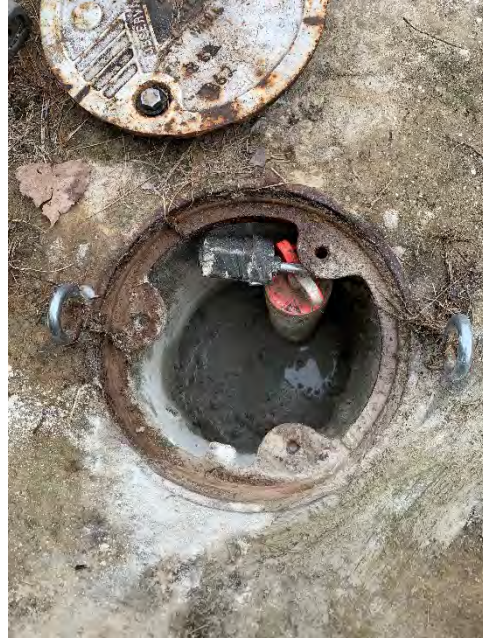


AP1 – DGWC-39: Cleared overgrowth from around pad.



Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP-4 2/3/- B-62: Filled annular with Portland/Bentonite Grout and brought up to approx. 5" from top of casing. Added pea gravel to top of grout.

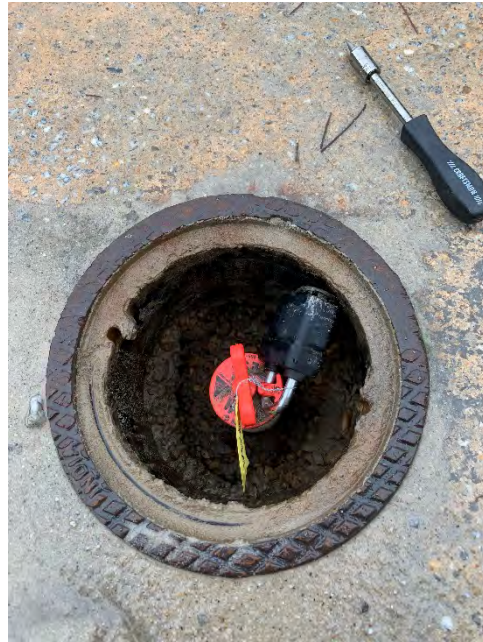


Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP-2/3/4 – B-63: Only surface cracks observed in pad. Used concrete resurface/fill to fill in superficial cracks.



AP4 – B-65: Bolt flange on inside of manhole broke due to concrete truck traffic at the Argos Batch Plant near AP4 fence. The only way to repair is to saw cut the manhole/pad out of concrete and replace. After discussing with ES&EE, decided to place a strap over top of the manhole cover to keep it in place. If truck traffic damages the strap, then full replacement may be required.



Southern Company CFS
Plant McDonough Oct 2021 Well O&M



AP-4 2/3/- B-68: Discharge pipe is coming from the Argos Concrete Batch Plant Washdown area. The pipe is owned by Argos. After discussing with ES&EE, CFS did not tamper with the pipe until GPC EA/ES&EE contact Argos about extending the pipe downgradient of B-68.



Southern Company CFS
Plant McDonough Oct 2021 Well O&M

AP-4 2/3/- B-87: Cleared overgrowth from around pad.



AP-4 2/3/- B-88: Cleared overgrowth from around pad.



Southern Company CFS Plant McDonough Oct 2021 Well O&M

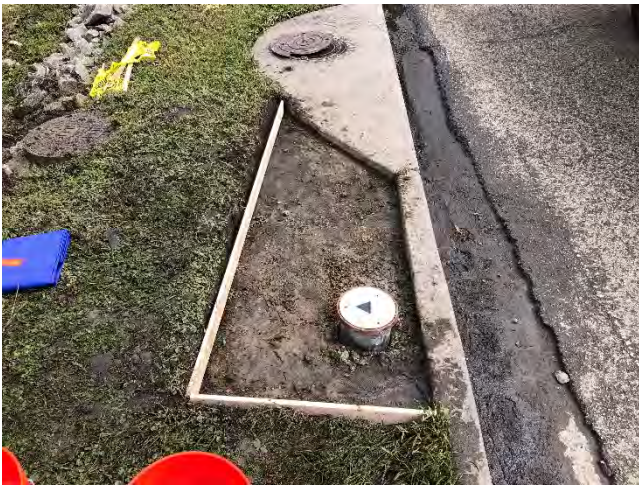
AP-4 2/3/- B-94: Cleared overgrowth from around pad.



AP-4 2/3/- B-95: Cracked pad due to truck traffic from Waste Management Facility. Appears that the manhole cover was pushed down which crushed the pad. The cover also contacted well cap and broke it. CFS removed the old pad/manhole and replaced. To lower the manhole closer to curb height to try to prevent the cover from being pushed down, CFS trimmed approx. 1' from the bottom of the manhole skirt. CFS also cut off the riser approx. 2" and replaced the well cap. The pad size was also increased, and rebar embedded in the concrete to strengthen and try to prevent the pad from cracking if it is run over again. Since CFS replaced the well cap, Golder will need to install a new cap lock as CFS was not able to transfer the lock over to the new cap. The well should also be resurveyed since the riser was cut off.



Southern Company CFS
Plant McDonough Oct 2021 Well O&M



Southern Company CFS
Plant McDonough Oct 2021 Well O&M



AP-4 2/3/- B-111D: Cleared overgrowth from around pad.



Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP-4 2/3/- B-117D: Cleared overgrowth from around pad.



Additionally, all well signs that CFS was requested to procure, were installed during this O&M mobilization. All well signs were installed with the exception of B-110D, B-112D and B-113D. These are flush mount wells located at the toe of AP1 Dike. The ordered signs for these 3 wells were left in the SCS construction trailer, with the construction coordinator at the request of ES&EE.

Southern Company CFS Plant McDonough Oct 2021 Well O&M

While installing wells signs, additional wells that were observed needing maintenance where addressed:

B-3 – Clear overgrowth



B-120D – Clear Overgrowth



Southern Company CFS
Plant McDonough Oct 2021 Well O&M

B-5 – Clear Overgrowth



B-59 – Straighten bollard and clear overgrowth



Southern Company CFS
Plant McDonough Oct 2021 Well O&M

DGWC-37 – Straighten bollard



APPENDIX D

**Well Condition Assessment Forms
September 2021**

**WELL INSPECTION FORM
PLANT MCDONOUGH**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition (S) for Satisfactory Discrepancies identified below	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weep hole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment (S) for Satisfactory Discrepancies identified below
DGWA-53	↑	Overgrown	S	S	S	Poor recharge, requires purge dry and returning to sample
DGWA-70A	↑	S	S	S	S	S
DGWA-71	↑	Overgrown	Cracked Lid	S	S	S
DGWC-2	↓	S	S	Bollard knocked over	S	S
DGWC-4	↓	Overgrown	S	S	S	S
DGWC-5	↓	Overgrown	S	S	S	S
DGWC-8	↓	S	S	S	S	S
DGWC-9	↓	S	S	S	S	3 Well Volumes
DGWC-10	↓	S	S	S	S	S
DGWC-11	↓	S	S	S	S	S
DGWC-12	↓	S	S	S	S	S
DGWC-13	↓	S	S	S	S	S
DGWC-14	↓	S	S	S	S	S
DGWC-15	↓	S	S	S	S	S
DGWC-17	↓	S	S	S	S	S
DGWC-19	↓	S	S	S	S	S
DGWC-20	↓	S	S	S	S	S
DGWC-21	↓	S	S	S	S	S
DGWC-22	↓	S	S	Bollard knocked over	S	S
DGWC-23	↓	S	S	S	S	S
DGWC-37	↓	In floodplain	S	S	S	S
DGWC-38	↓	S	S	S	S	S
DGWC-39	↓	Overgrown	S	S	S	S
DGWC-40	↓	S	S	S	S	S
DGWC-42	↓	S	S	S	S	S
DGWC-47	↓	S	S	S	S	S
DGWC-48	↓	S	S	S	S	S
DGWC-67	↓	In floodplain	S	S	S	S
DGWC-68A	↓	S	S	S	S	S
DGWC-69	↓	S	S	S	S	S

**WELL INSPECTION FORM
PLANT MCDONOUGH**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition (S) for Satisfactory Discrepancies identified below	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment (S) for Satisfactory Discrepancies identified below
B-3	↓	S	S	S	S	S
B-6	↓	S	S	S	S	S
B-7	↓	S	S	S	S	S
B-16	↓	S	S	S	S	S
B-18	↓	S	S	S	S	S
B-24	↓	S	S	S	S	S
B-25	↓	S	S	S	S	S
B-26	↓	S	S	S	S	S
B-28	↓	S	S	S	S	S
B-29	↓	S	S	S	S	S
B-31	↓	S	S	S	S	S
B-41	↓	S	S	S	S	S
B-50	↓	S	S	S	S	S
B-51	↓	In floodplain	S	S	S	S
B-52	↓	S	S	S	S	S
B-54	↓	S	S	S	S	S
B-55	↓	S	S	S	S	S
B-56	↓	S	S	S	S	S
B-57	↓	S	S	S	S	S
B-58	↓	S	S	S	S	S
B-59	↓	S	S	S	S	S
B-60	↓	S	S	S	S	S
B-61	↓	S	S	S	S	S
B-62	↓	S	Bolts and washers replaced	S	Cave in - annular space	S
B-63	↓	S	S	Well pad cracked	S	S
B-64	↓	S	S	S	S	S
B-65	↓	S	S	Bolt intake broken	S	S
B-66	↓	S	S	S	S	S
B-68	↓	S	S	S	S	S
B-72	↓	In floodplain	S	S	S	S
B-73	↓	S	S	S	S	S
B-74	↓	S	S	S	S	S
B-76	↓	S	S	S	S	S

**WELL INSPECTION FORM
PLANT MCDONOUGH**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition (S) for Satisfactory Discrepancies identified below	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment (S) for Satisfactory Discrepancies identified below
B-77	↓	Well ID replaced	S	S	S	S
B-78	↓	S	S	S	S	S
B-79	↓	S	S	S	S	S
B-80	↓	S	Pea gravel added	S	Weep hole added	S
B-81	↓	S	S	S	S	S
B-82	↓	Downgrade of discharge pipe	S	S	S	S
B-83	↓	S	Washers replaced	S	S	S
B-84	↓	Well ID replaced	Bolt replaced	S	S	S
B-85	↓	S	S	S	S	S
B-86	↓	S	S	S	S	S
B-87	↓	Overgrown	S	Overgrown	S	S
B-88	↓	Overgrown	S	Overgrown	S	S
B-89	↓	S	S	S	S	S
B-90	↓	Close to Road	S	S	S	S
B-91	↓	Close to Road	S	S	S	S
B-92	↓	Close to Road	S	S	S	S
B-93	↓	Close to Road	S	S	S	S
B-94	↓	Overgrown	S	S	S	S
B-95	↓	Close to Road	S	Cracked Pad	S	S
B-96	↓	Close to Road	S	S	S	S
B-97	↓	Close to Road	S	S	S	S
B-98	↓	Close to Road	S	S	S	S
B-99	↓	S	S	S	S	S
B-100	↓	S	S	S	S	S
B-101D	↓	S	S	S	S	S
B-102D	↓	S	S	S	S	S
B-103D	↓	S	S	S	S	S
B-104D	↓	S	S	S	S	S
B-105D	↓	S	S	S	S	S
B-106D	↓	S	S	S	S	S
B-107D	↓	S	S	S	S	S
B-108D	↓	S	S	S	S	S
B-109D	↓	S	Pea gravel added	S	S	S
B-110D	↓	S	Bolt replaced	S	S	S
B-111D	↓	Overgrown	S	S	S	S

**WELL INSPECTION FORM
PLANT MCDONOUGH**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment
		(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below
B-112D	↓	S	S	S	S	S
B-113D	↓	In floodplain	S	S	S	S
B-115D	↓	S	S	S	S	S
B-116D	↑	S	S	S	S	S
B-117D	↑	Overgrown	S	S	S	S
B-118	↑	Well ID replaced	S	S	S	S
B-119D	↑	Well ID replaced	S	S	S	S
B-120D	↓	S	S	S	S	S
AP-1-B-3	IW	S	S	S	S	S
AP-1-B-7	IW	S	S	S	S	S
AP-1-B-8	IW	S	S	S	S	S
						S

NOTES:
IW = Interstitial Well
1. Provide pictures of any deficiencies.
2. Notify SCS /GPC of any noted deficiencies.
3. Provide additional comments as necessary to address any deficiencies.

APPENDIX D

**Well Condition Assessment Forms
January 2022**

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-53

Date: 1/18/22

	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 McDonough

Permit Number:

Well ID: DGWA-70A

Date: 1/18/22

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 _____ 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 McDonough

Permit Number:

Well ID: DGWA-71

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-62

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-100

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-2

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-4

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-5

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-8

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-9

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-10

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-11

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-12

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-13

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | 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 McDonough

Permit Number:

Well ID: DGWC-14

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-15

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-17

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-19

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-20

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-21

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-22

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-23

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-42

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-47

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: DGWC-48

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-56

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-63

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-66

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-77

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | 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 McDonough

Permit Number:

Well ID: B-82

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-83

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | 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 McDonough

Permit Number:

Well ID: B-88

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-92

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-93

Date: 1/18/22

	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 McDonough

Permit Number:

Well ID: B-97

Date: 1/18/22

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: Off site well, no lock bar

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-98

Date: 1/18/22

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: Off site well, no lock bar

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-101D

Date: 1/18/22

	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 McDonough

Permit Number:

Well ID: B-102D

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-104D

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B 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 McDonough

Permit Number:

Well ID: B-106D

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B 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: One bollard has fallen

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-107D

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B 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 McDonough

Permit Number:

Well ID: B-108D

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-109D

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-111D

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B 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 McDonough

Permit Number:

Well ID: B-115D

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-120D

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-90

Date: 1/18/22

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? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | |
| B 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 McDonough

Permit Number:

Well ID: B-91

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-95

Date: 1/18/22

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: Off site well, no lock bar

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-96

Date: 1/18/22

	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? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | 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: Off site well, no lock bar

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-99

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-116D

Date: 1/18/22

	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? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | 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 McDonough

Permit Number:

Well ID: B-117D

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B 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 McDonough

Permit Number:

Well ID: B-118

Date: 1/18/22

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 McDonough

Permit Number:

Well ID: B-119D

Date: 1/18/22

	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?
If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X | | |
| B Does the well require redevelopment (low flow/turbidity)? | X | | |
| C | | 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

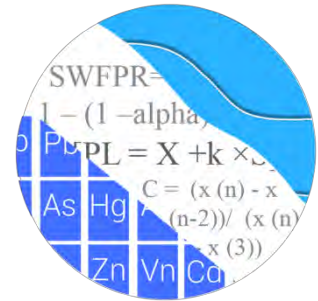
APPENDIX E

Statistical Analyses

APPENDIX D

**Statistical Analysis
September 2021**

GROUNDWATER STATS CONSULTING



February 28, 2022

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)
September 2021 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2021 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of groundwater data for Georgia Power Company's Plant McDonough AP-2,3,4. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals 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 Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** DGWA-53, DGWA-70A, DGWA-71
- **Downgradient wells:** DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, and DGWC-48

- **Delineation wells:** B-56, B-62, B-63, B-66, B-77, B-82, B-83, B-88, B-92, B-93, B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, and B-120D

The delineation wells were installed at various times during 2016-2020 as follows:

- **2016** - B-56, B-62, B-63, and B-66
- **2019** - B-77, B-82, B-83, B-88, B-92, and B-93
- **2020** – B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, and B-111D
- **2021** – B-115D and B-120D

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology prepared in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) program consists of 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 summary of Appendix IV downgradient and delineation well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- 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 in background, 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. In some cases, earlier data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only a few of these values were flagged in the database as all other values are similar to other measurements.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed two statistically significant decreasing trends for the Appendix III parameters. The only trend identified in the upgradient wells was a statistically significant decreasing trend for sulfate in well DGWA-71. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS, which would indicate intrawell analyses may be most appropriate for these parameters. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – September 2021

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2021 (Figure D). Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 2021 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. Similar patterns that are present in both upgradient and downgradient wells are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends

- Boron: DGWC-4 and DGWC-11
- Calcium: DGWC-4, DGWC-5, DGWC-11, and DGWC-19
- Chloride: DGWC-11, DGWC-15, and DGWC-20
- pH: DGCW-5 and DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-5, DGWC-11, and DGWC-19

Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-12, DGWC-13, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-2, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, DGWC-12, DGWC-19, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48, and DGWA-53 (upgradient)
- Fluoride: DGWC-48
- pH: DGWC-9
- Sulfate: DGWC-2, DGWC-8, DGWC-12, DGWC-15, DGWC-20, DGWC-47, DGWC-48, DGWA-70A (upgradient), and DGWA-71 (upgradient)
- TDS: DGWC-8, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

Statistical Analysis of Appendix IV Parameters – September 2021

For Appendix IV parameters, confidence intervals for each downgradient and delineation well/constituent pair with four or more samples were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. As mentioned above, downgradient and delineation well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for combined radium. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. Note that in order to maintain conservative limits from a regulatory perspective, non-parametric tolerance limits were used for cobalt.

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).

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 for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the September 2021 sample event for the Federal and State rules (Figures G and H, respectively).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures I and J, respectively). Note that confidence intervals require a minimum of 4 samples and, in many cases, the delineation wells had insufficient samples at this time. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Due to the required transformations to fit the data to a transformed normal distribution, the lower confidence limits resulted in negative numbers for some well/constituent pairs. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well, were constructed for these particular cases and may be found at the end of Figures I and J. A summary of the

confidence intervals follows this letter. Exceedances were noted for the following well/constituent pairs:

Federal:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, and B-93
- Combined Radium 226 + 228: B-104D
- Lithium: DGWC-47 and DGWC-48
- Selenium: DGWC-9

State:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, and B-93
- Combined Radium 226 + 228: B-104D
- Lithium: DGWC-47, DGWC-48, and B-104D
- Selenium: DGWC-9

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure K). 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. When trends are present in upgradient trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Cobalt: DGWC-9

Decreasing

- Beryllium: DGWA-70A (upgradient) and DGWC-47
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Lithium: DGWC-47 and DGWC-48

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McDonough AP-2,3,4. 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
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient & Delineation Wells

Analysis Run 11/8/2021 1:50 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Antimony (mg/L)

DGWC-10, DGWC-11, DGWC-13, DGWC-20, DGWC-22, DGWC-42, DGWC-9, B-107D, B-108D, B-115D, B-56, B-66, B-82, B-83, B-88, B-92, B-97, B-98

Arsenic (mg/L)

DGWC-11, DGWC-13, DGWC-21, DGWC-23, B-100, B-102D, B-106D, B-107D, B-108D, B-109D, B-120D, B-62, B-63, B-66, B-82, B-83, B-88, B-97, B-98

Beryllium (mg/L)

DGWC-14, DGWC-2, B-108D, B-111D, B-66

Cadmium (mg/L)

DGWC-14, B-101D, B-104D, B-107D, B-108D, B-109D, B-111D, B-62, B-66, B-77

Chromium (mg/L)

DGWC-14, B-102D, B-106D, B-107D, B-108D, B-111D, B-115D, B-120D, B-66, B-92, B-97, B-98

Cobalt (mg/L)

DGWC-14, B-109D

Fluoride, total (mg/L)

B-100, B-107D, B-108D, B-120D, B-88

Lead (mg/L)

DGWC-22, B-106D, B-108D, B-109D, B-62, B-66, B-92, B-97, B-98

Lithium (mg/L)

B-66

Mercury (mg/L)

DGWC-47, B-102D, B-106D, B-109D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-83, B-97, B-98

Molybdenum (mg/L)

DGWC-10, DGWC-11, DGWC-12, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9, B-100, B-102D, B-106D, B-107D, B-108D, B-115D, B-56, B-62, B-63, B-77, B-82, B-83, B-92, B-93, B-97, B-98

Selenium (mg/L)

DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-102D, B-106D, B-107D, B-109D, B-62, B-63, B-66

Thallium (mg/L)

DGWC-11, DGWC-13, DGWC-14, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-92, B-93, B-97, B-98

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 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)	DGWC-10	0.13	n/a	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.07	n/a	9/13/2021	17.1	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.07	n/a	9/10/2021	10.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.07	n/a	9/10/2021	9.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.07	n/a	9/13/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.07	n/a	9/10/2021	9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/10/2021	2.2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/10/2021	0.47	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/10/2021	2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.646	5.155	9/10/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.646	5.155	9/13/2021	5.06	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.646	5.155	9/9/2021	4.82	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	DGWC-20	6.646	5.155	9/10/2021	4.67	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.646	5.155	9/13/2021	5.15	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.646	5.155	9/10/2021	4.1	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.646	5.155	9/10/2021	4.3	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.646	5.155	9/10/2021	4.89	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.646	5.155	9/13/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.646	5.155	9/10/2021	3.98	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	33.32	n/a	9/10/2021	271	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	33.32	n/a	9/9/2021	247	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	33.32	n/a	9/9/2021	126	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	33.32	n/a	9/9/2021	127	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	33.32	n/a	9/9/2021	42.3	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	33.32	n/a	9/9/2021	139	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	33.32	n/a	9/13/2021	222	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	33.32	n/a	9/9/2021	315	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 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)	DGWC-10	0.13	n/a	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/9/2021	0.08	No	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/9/2021	29.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/9/2021	38.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/9/2021	11.1	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/9/2021	34.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/13/2021	15.8	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2021	38.9	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/10/2021	24.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/13/2021	36	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.07	n/a	9/9/2021	3.3	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.07	n/a	9/9/2021	2.1	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	299.2	n/a	9/9/2021	275	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	299.2	n/a	9/9/2021	246	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	299.2	n/a	9/9/2021	99	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	299.2	n/a	9/9/2021	292	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	299.2	n/a	9/9/2021	260	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	299.2	n/a	9/10/2021	274	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7511	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.06556	62	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.24	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.08547	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.263	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.7252	-64	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3101	54	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.0335	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07754	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.4216	-69	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2815	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.533	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.66	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.089	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-15.03	-87	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	21.16	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.485	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	8.05	50	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1941	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	1.079	44	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.7273	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.5787	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.305	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.833	83	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.241	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.873	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.134	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-2.232	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1917	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.05374	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.112	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02122	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.2582	-50	-48	Yes	14	35.71	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.564	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-47.07	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.561	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-59.83	-83	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-51.63	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-58.21	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-56.15	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-72.96	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-26.59	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	32.36	53	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	29.77	52	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-58.61	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-61.71	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	38.2	54	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-87.61	-70	-43	Yes	13	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002041	-16	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	14	48	No	14	57.14	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0	-2	-43	No	13	23.08	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-10	-0.7511	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.06556	62	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.24	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.08547	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.01926	22	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03666	39	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1898	-40	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.263	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.7252	-64	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-21	0.2662	21	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.1044	17	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.1025	25	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3101	54	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-42	-0.01135	-22	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.0335	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07754	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-5	-0.1613	-13	-43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.4216	-69	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2815	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.533	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-70A (bg)	-0.1515	-29	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.6883	-36	-43	No	13	7.692	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.262	-14	-43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.66	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.089	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-15.03	-87	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-20	-4.731	-43	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.444	41	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.05105	6	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.103	32	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	21.16	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.485	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	8.05	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-9	-5.362	-25	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1941	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.08417	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.07636	12	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.6293	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	1.079	44	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.7273	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.3754	-14	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.5787	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-17	0.6518	35	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.305	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.833	83	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.241	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.873	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.134	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-2.232	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.4296	43	43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1857	-24	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5877	44	48	No	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.001259	-9	-63	No	17	11.76	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-70A (bg)	0.01092	48	53	No	15	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	32	58	No	16	81.25	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03121	14	58	No	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1917	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-9	0.03993	16	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02897	13	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-22	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.03005	28	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.061	32	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	-0.003279	-9	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.05374	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.02007	-42	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02543	-32	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1735	-52	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-48	-0.02287	-24	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.112	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-8	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02122	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-1.708	-31	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.2582	-50	-48	Yes	14	35.71	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.564	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-10	-35.48	-42	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	15.01	34	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-47.07	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-13	-7.462	-36	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.3613	-11	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.561	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-17	-0.2865	-6	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-59.83	-83	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-51.63	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-7.197	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-5.563	-14	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	3	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	34.38	33	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-12.99	-40	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-58.21	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-56.15	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-5	1.576	2	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-72.96	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-9	-8.648	-15	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-26.59	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-1.029	-7	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-5.605	-39	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-38.88	-42	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	32.36	53	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	11.01	34	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	29.77	52	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-58.61	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	1.49	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.683	-27	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.7783	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	86.33	45	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.87	-24	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-61.71	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	38.2	54	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-87.61	-70	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	7.766	16	48	No	14	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:23 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	81.82	n/a	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	44	n/a	n/a	0	n/a	n/a	0.1047	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	45	n/a	n/a	62.22	n/a	n/a	0.09944	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	44	n/a	n/a	93.18	n/a	n/a	0.1047	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	43	n/a	n/a	60.47	n/a	n/a	0.1102	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.605	n/a	n/a	n/a	46	1.041	0.3523	0	None	x ^(1/3)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	48	n/a	n/a	52.08	n/a	n/a	0.08526	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	44	n/a	n/a	86.36	n/a	n/a	0.1047	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	44	n/a	n/a	63.64	n/a	n/a	0.1047	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)

Federal Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.04	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.04	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		5.61	5.61
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		5.61	5.61
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.001
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.041
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

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**GWPS = Groundwater Protection Standard*

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes 15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes 14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No 14	0.002443	0.00107	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes 15	0.005413	0.000712	0	None	No	0.01	Param.
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No 4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No 4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No 4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No 4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No 5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No 5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No 4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No 4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No 14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No 14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No 16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No 14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No 15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No 15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No 15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No 15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No 15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No 15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No 15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No 15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No 14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No 15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No 15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No 15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No 14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No 14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No 15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No 4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No 4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No 4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No 7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No 4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No 6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No 5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No 5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No 4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No 4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No 14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No 14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No 16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No 14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No 15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No 15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No 15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No 15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No 15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.015	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.015	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.015	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.015	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.015	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.015	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.04	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.04	No	4	0.01325	0.0015	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.04	No	4	0.038	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.029	0.021	0.04	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.04	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.04	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.04	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.04	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.04	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.04	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.04	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.04	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.04	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.04	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.04	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.04	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.04	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.04	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.04	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.04	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.04	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.04	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.1	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.1	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.1	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.1	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.1	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

State Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.03	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.03	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.03	Yes	4	0.038	0.001414	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.

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Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No	14	0.002443	0.00107	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No	4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No	4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No	4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No	5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No	5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No	4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No	4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No	14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No	16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No	15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No	15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No	15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No	15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No	15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No	14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No	15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No	15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No	15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No	14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No	14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No	15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No	4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No	4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No	6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No	4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No	15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No	15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.001	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.001	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.001	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.001	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.001	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.001	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.001	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.001	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.001	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.001	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.001	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.001	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.001	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.001	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.001	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.001	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.001	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.001	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.001	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.001	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.001	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.001	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.001	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.001	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.001	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.001	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.001	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.001	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.001	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.001	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.03	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.03	No	4	0.01325	0.0015	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.03	Yes	4	0.038	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.029	0.021	0.03	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.03	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.03	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.03	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.03	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.03	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.03	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.03	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.03	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.03	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.03	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.03	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.03	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.03	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.03	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.03	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.03	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.03	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.03	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.03	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.03	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.03	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.03	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.03	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.03	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.03	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.03	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.041	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.041	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.041	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.041	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.041	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.041	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.041	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.041	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006733	-54	-53	Yes	15	53.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001263	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.005485	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02424	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.05383	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04534	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01234	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02407	66	53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006577	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.008187	-75	-53	Yes	15	0	n/a	n/a	0.01	NP

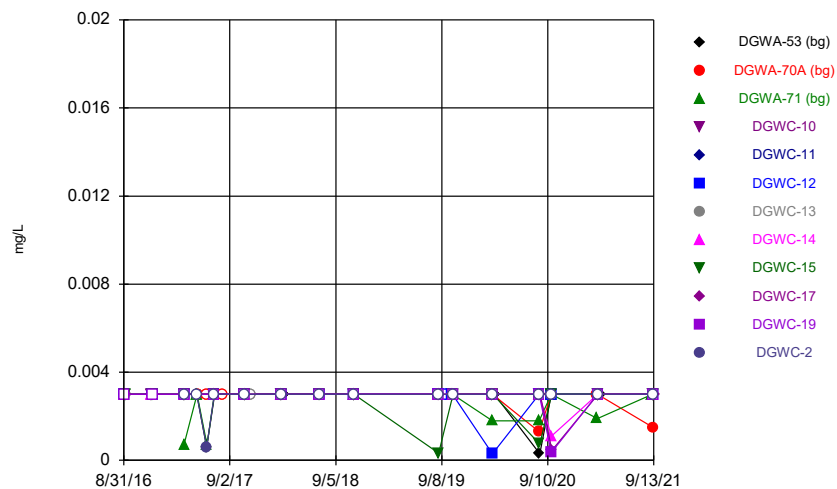
Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	11	53	No	15	66.67	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-4	-53	No	15	93.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	9	48	No	14	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.001503	18	53	No	15	6.667	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006733	-54	-53	Yes	15	53.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-71 (bg)	-0.00002022	-33	-53	No	15	33.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006483	25	48	No	14	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001263	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004177	-53	-53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004286	25	48	No	14	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001134	20	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.00406	5	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.005485	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	46.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	17	48	No	14	64.29	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02424	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-19	-0.0006109	-25	-53	No	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.02101	20	53	No	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.05383	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04534	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01234	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02407	66	53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004935	3	8	No	4	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.004021	-5	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.003331	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6866	-53	-53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.004235	0	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0	0	53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-8.273	-4	-8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001578	-13	-53	No	15	6.667	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	15	53	No	15	80	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001648	-41	-48	No	14	21.43	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006577	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.008187	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	B-104D	-0.004109	-5	-8	No	4	0	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-70A (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-71 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWC-9	0.006758	19	53	No	15	0	n/a	n/a	0.01	NP

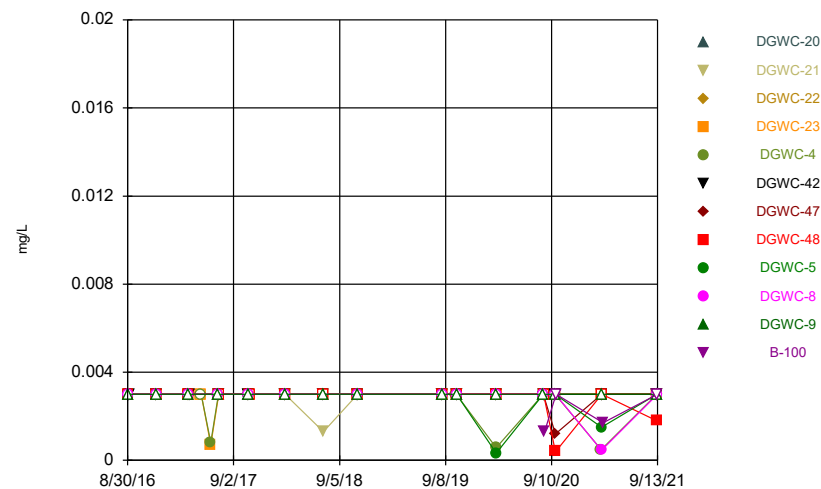
FIGURE A.

Time Series



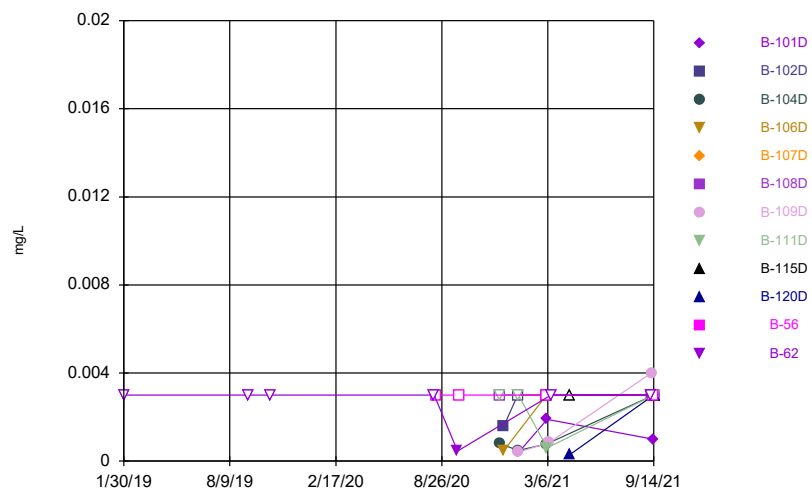
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



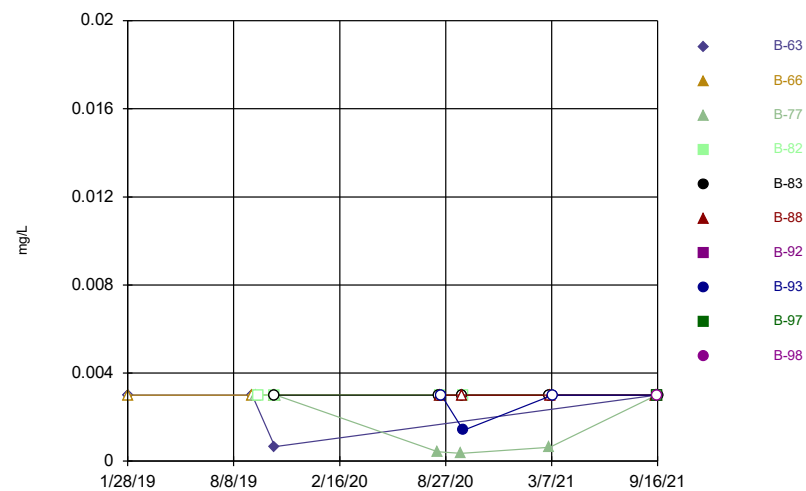
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



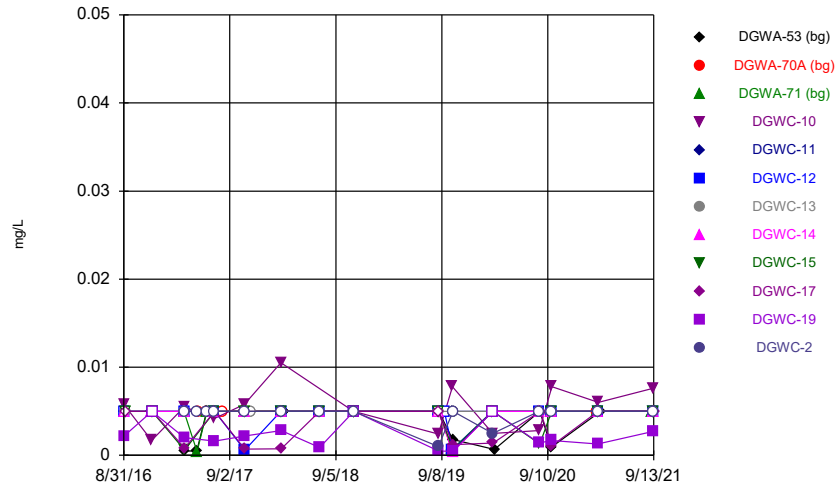
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Time Series



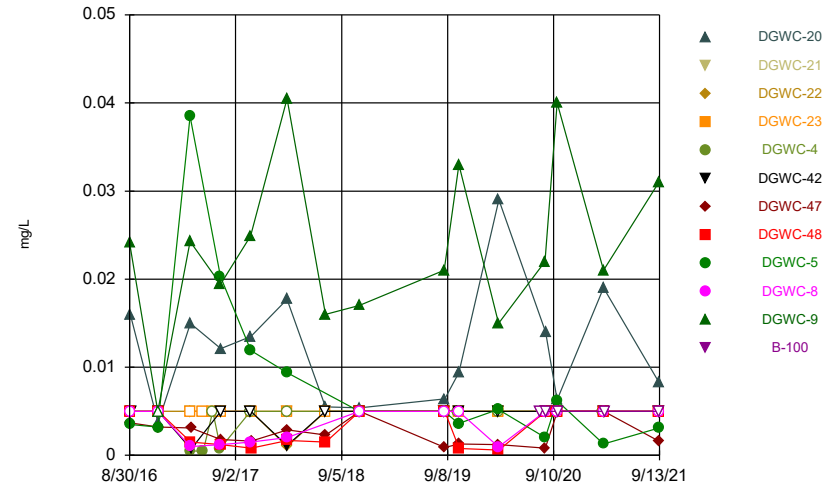
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



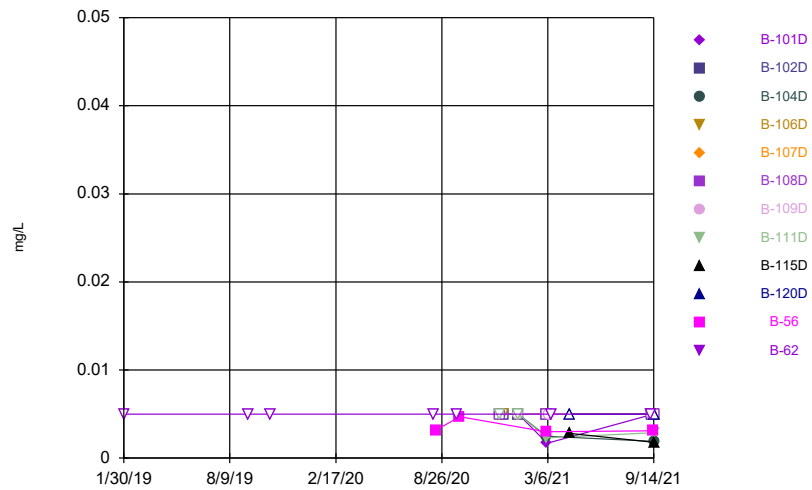
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



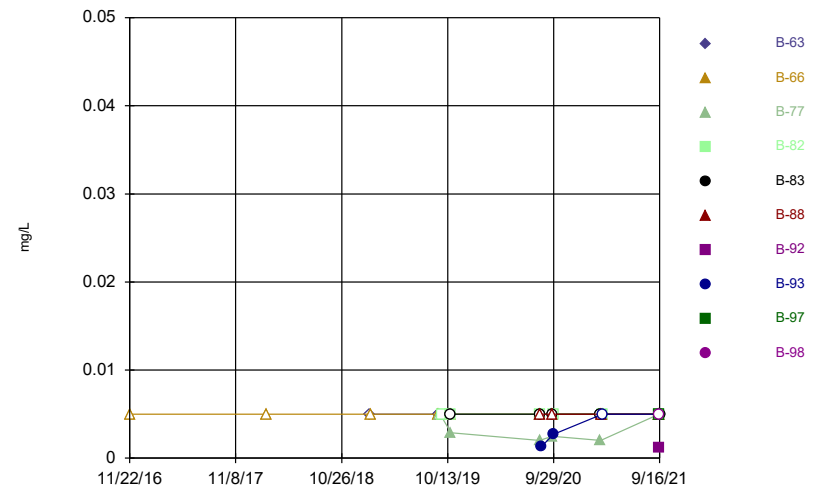
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



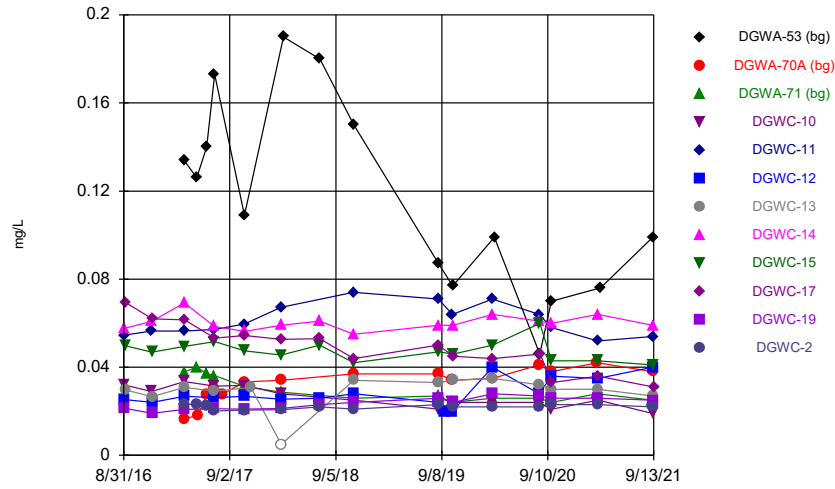
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Time Series



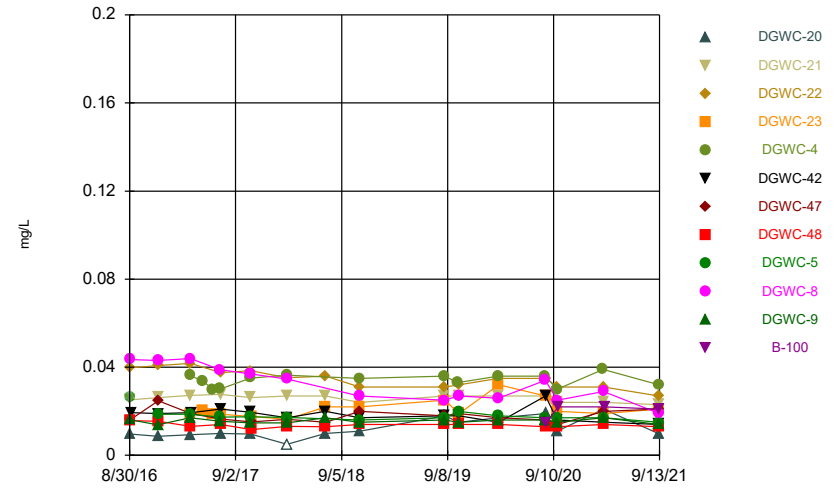
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Time Series



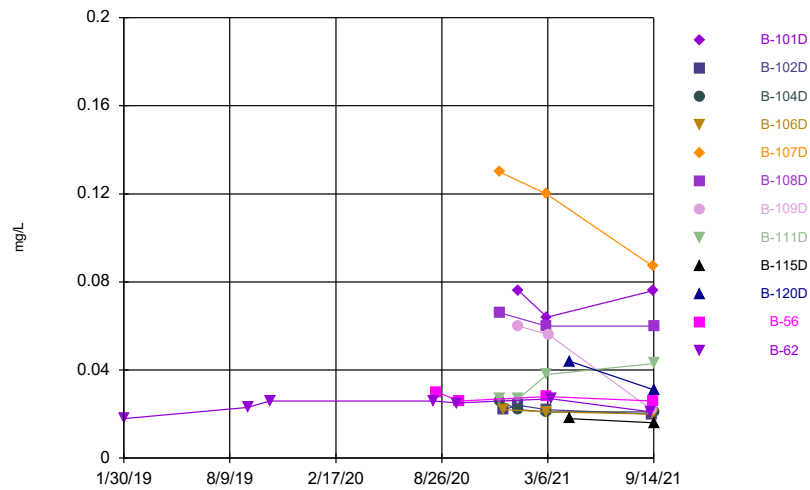
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Time Series



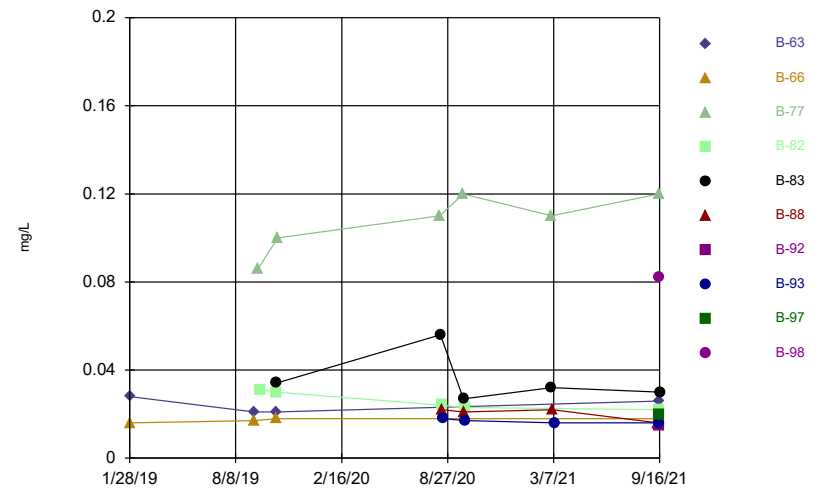
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Time Series



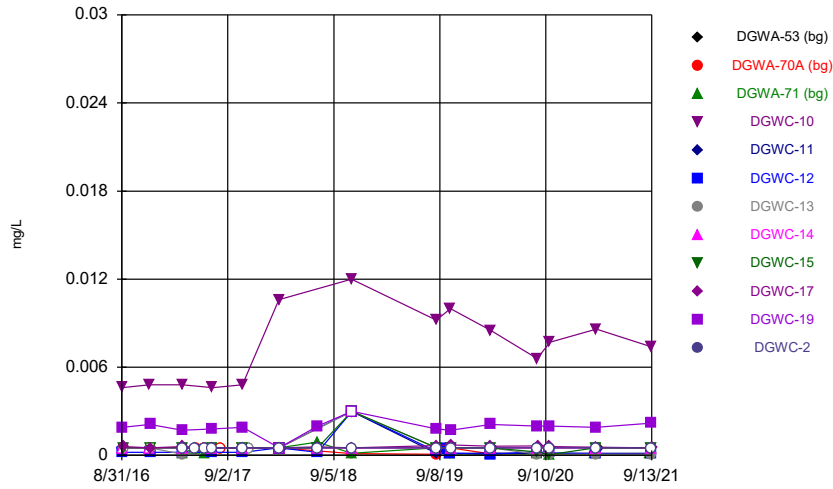
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Time Series



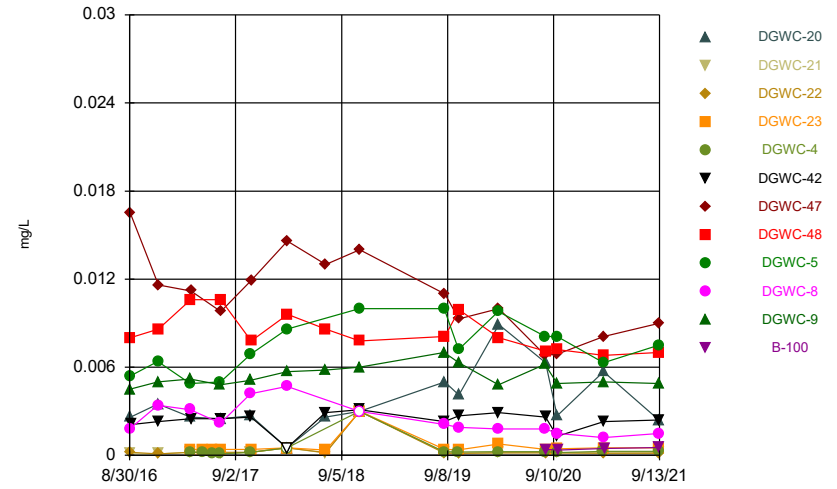
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Time Series



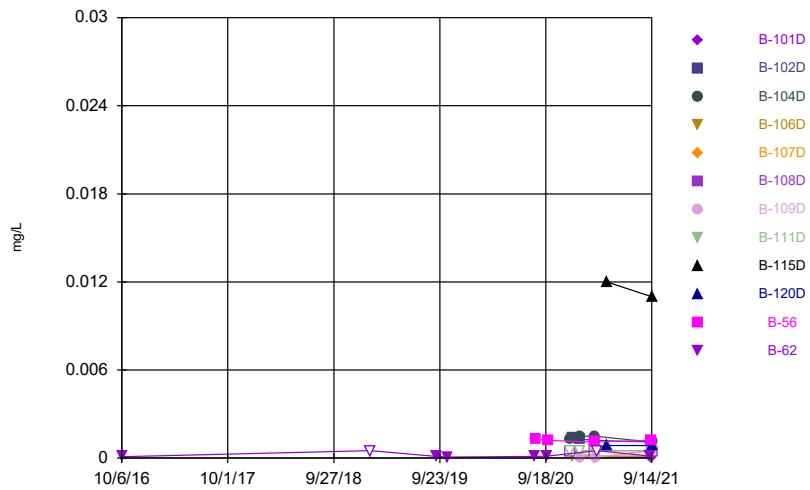
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Time Series



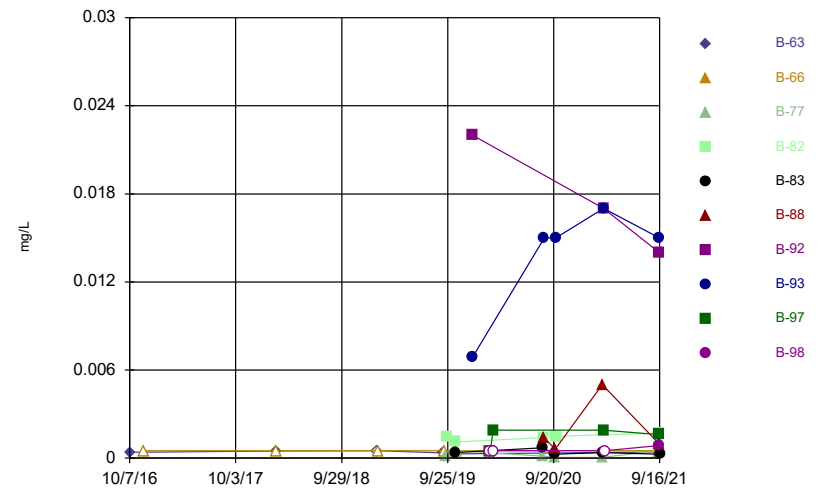
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Time Series



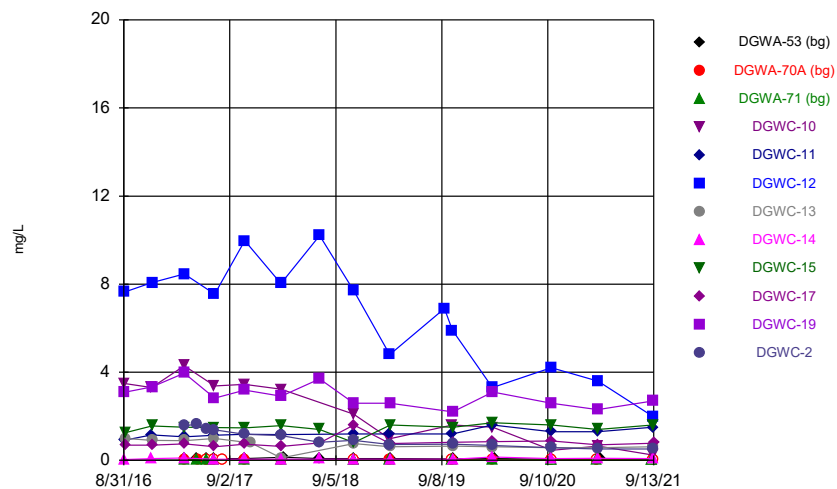
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Time Series



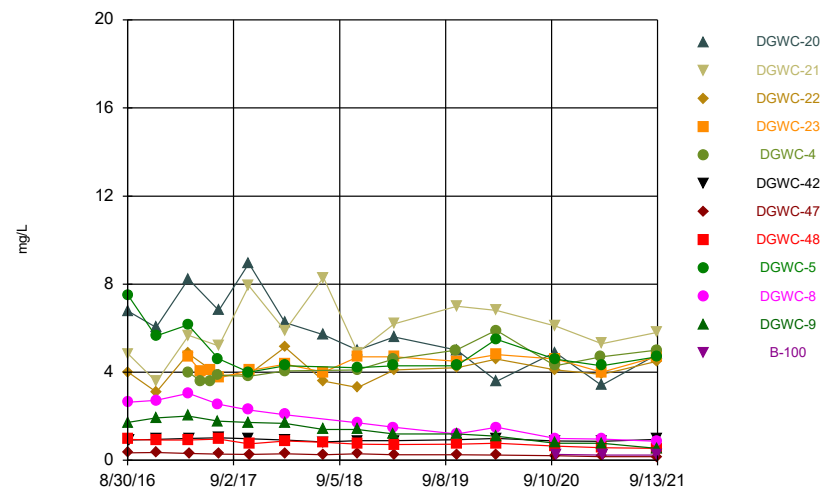
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Time Series



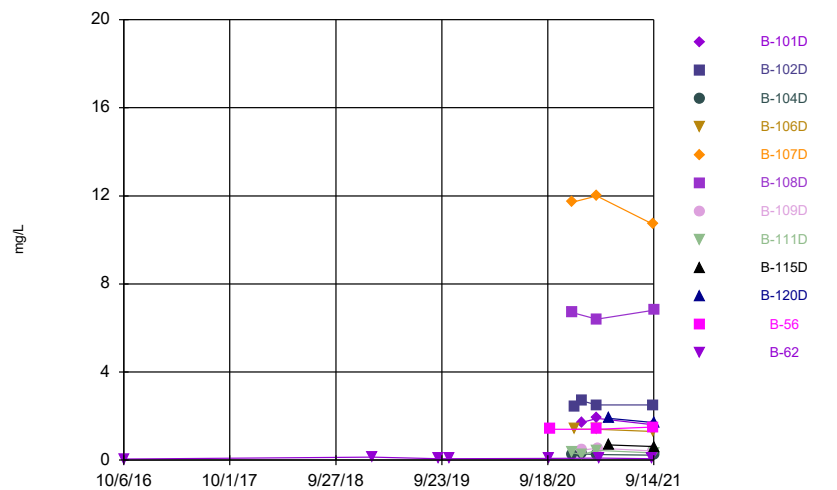
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



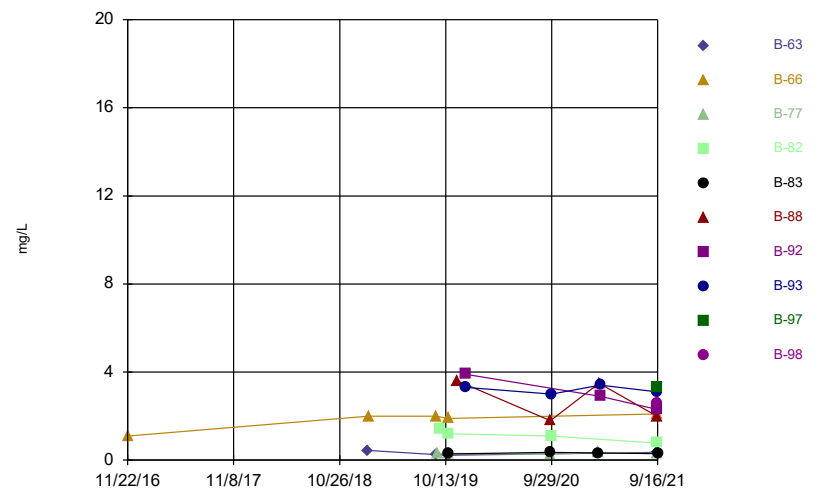
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Time Series



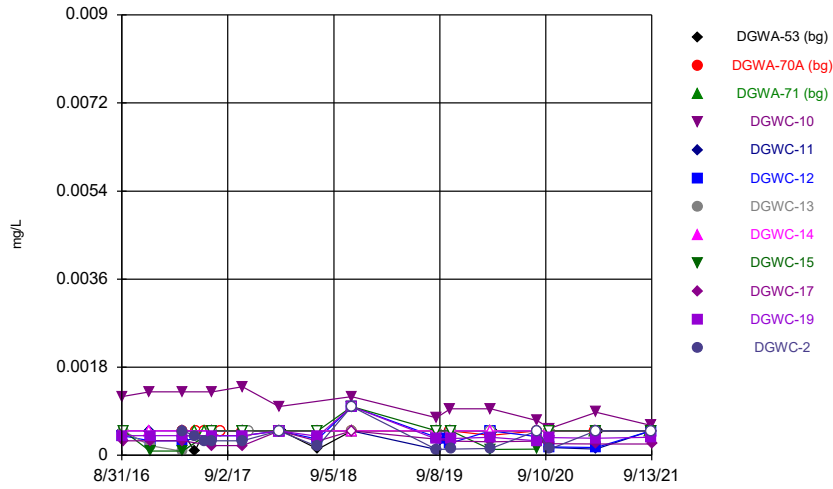
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Time Series



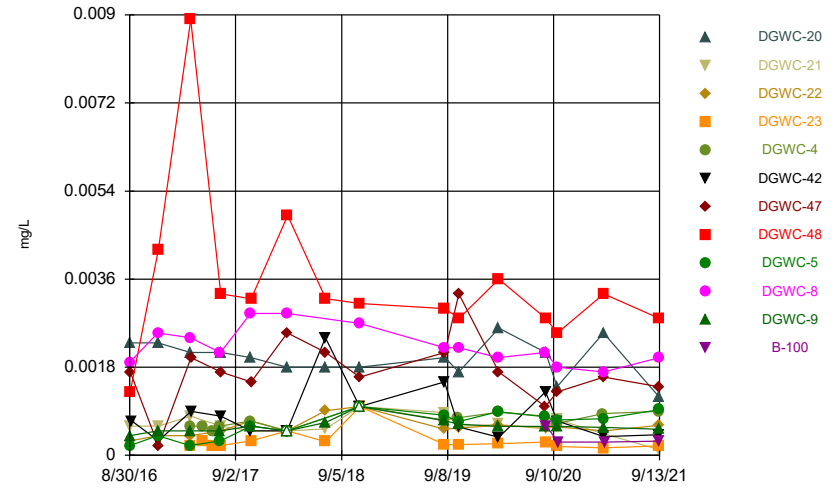
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Time Series



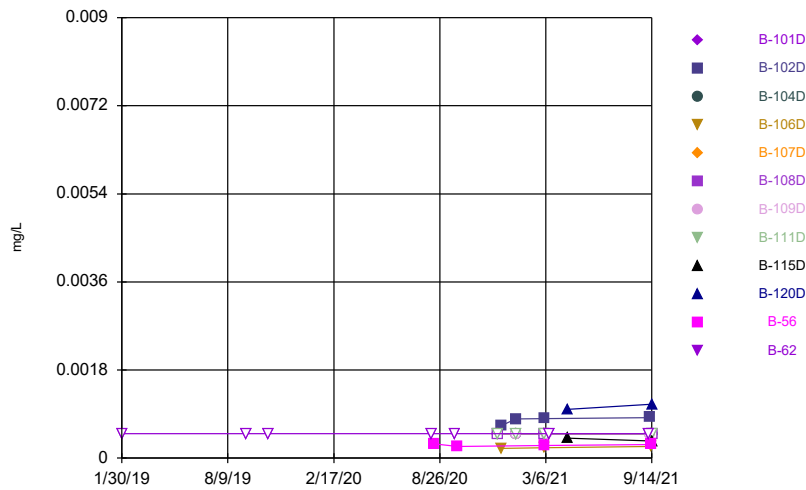
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



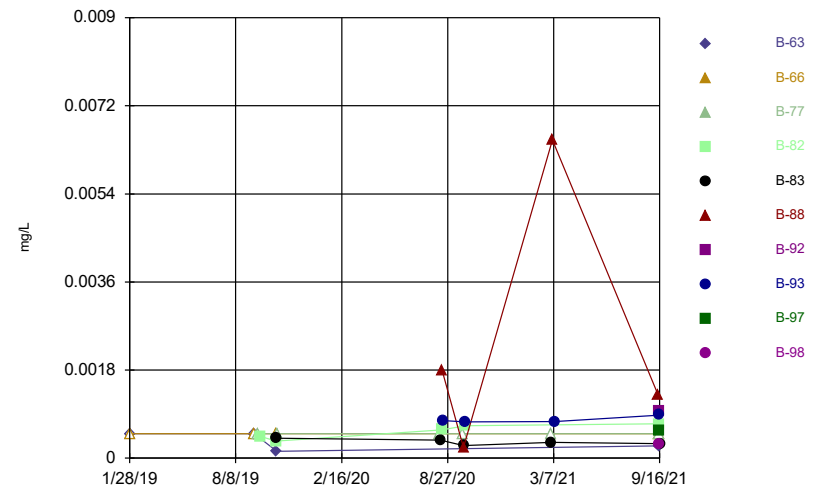
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Time Series



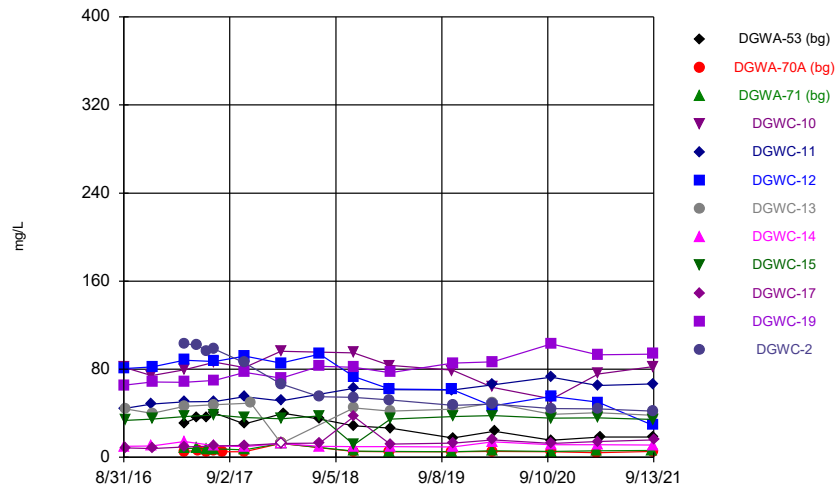
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Time Series



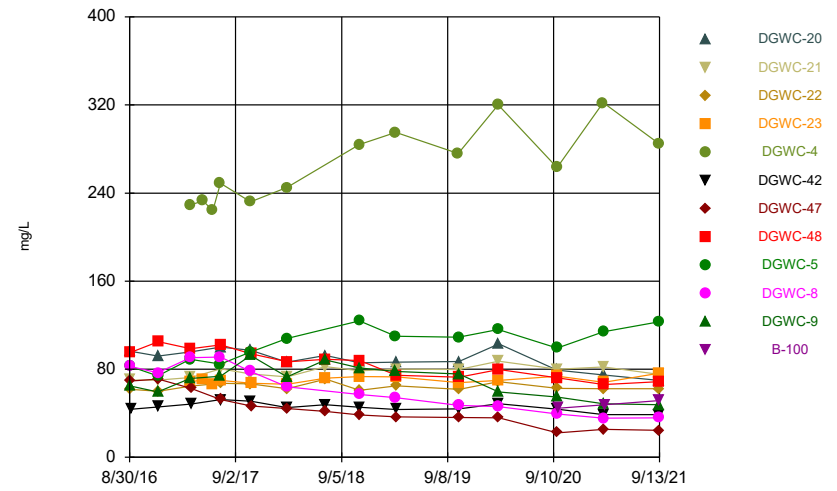
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Time Series



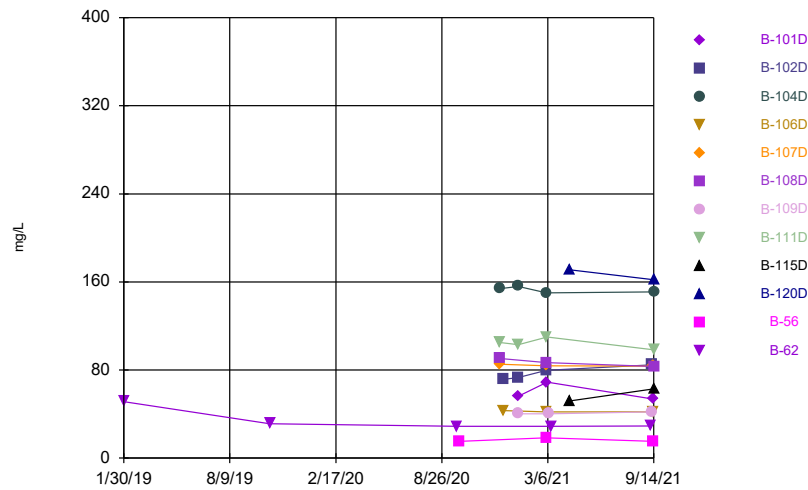
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Time Series



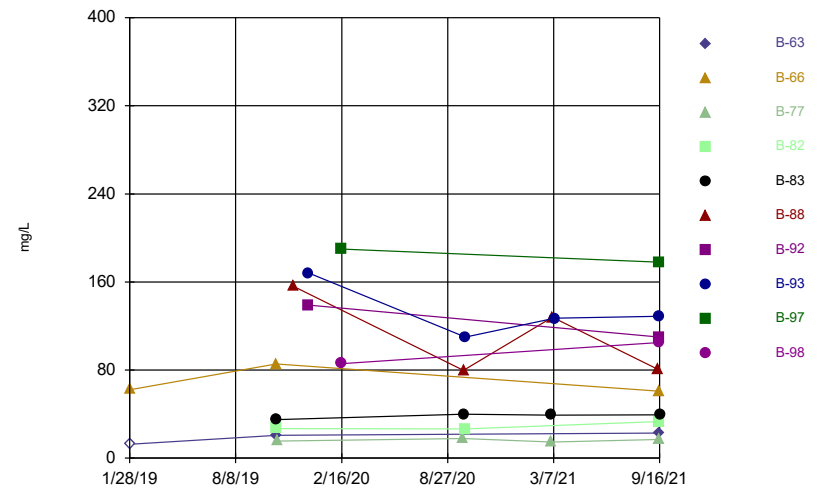
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Time Series



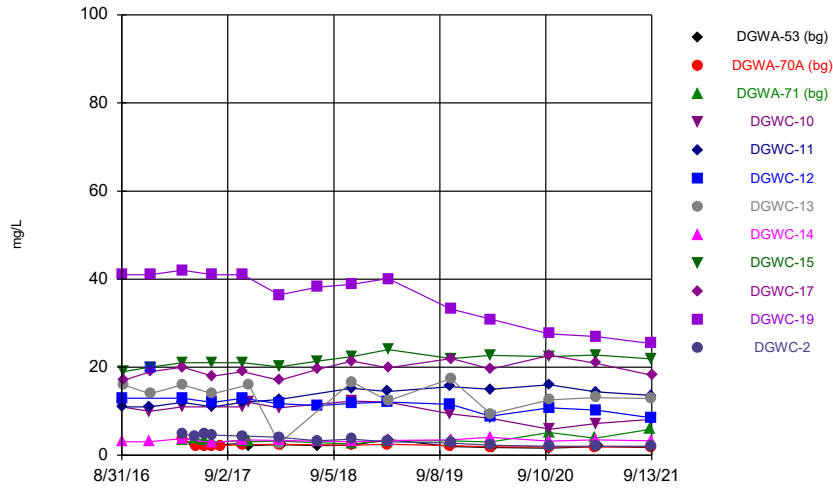
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Time Series



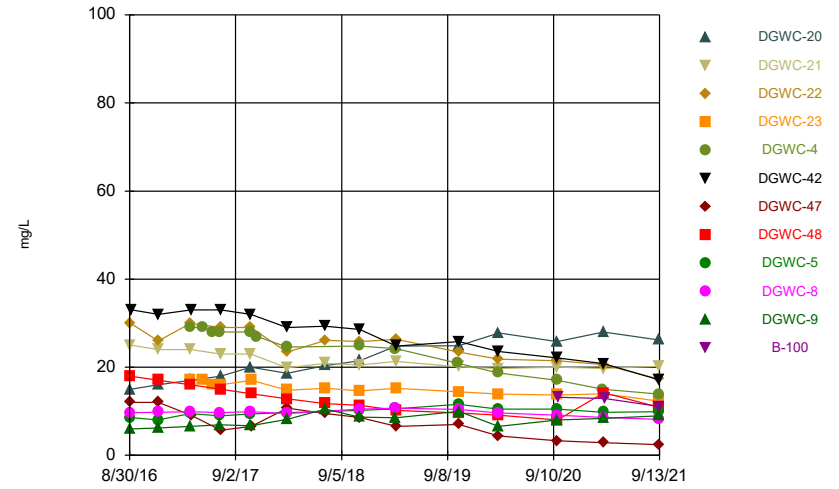
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Time Series



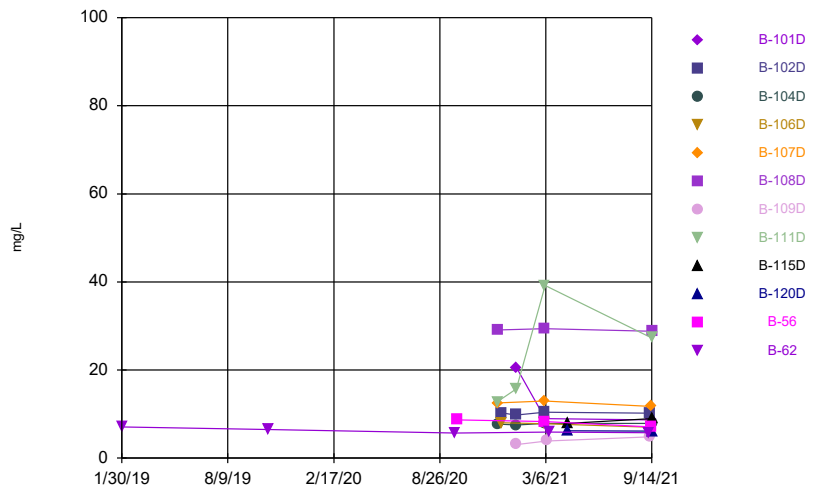
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Time Series



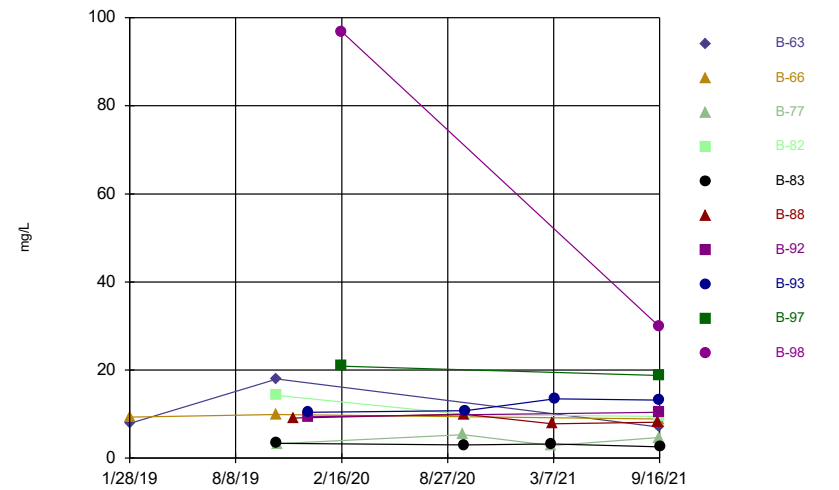
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Time Series



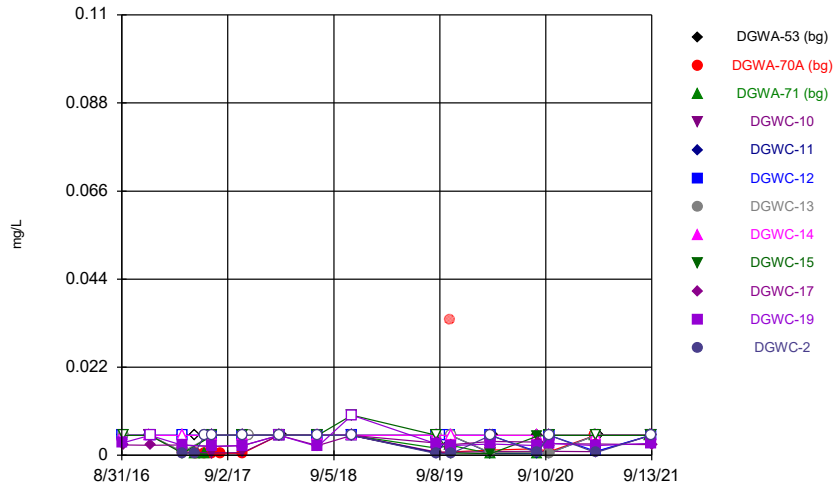
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Time Series



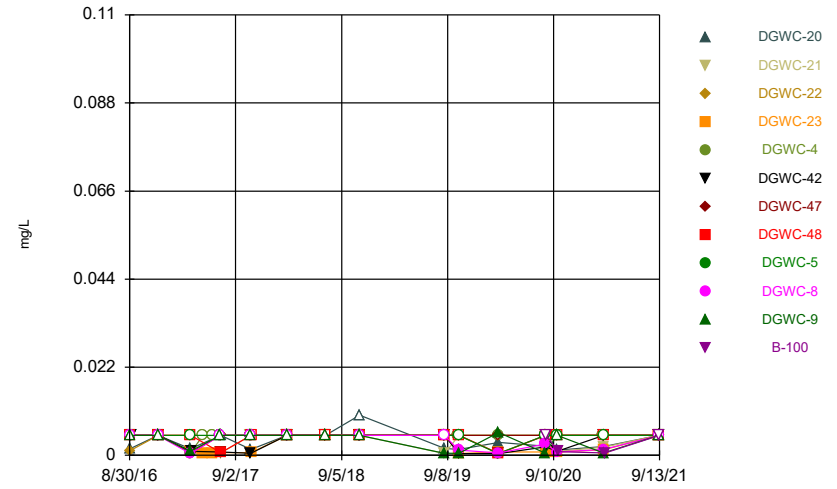
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Time Series



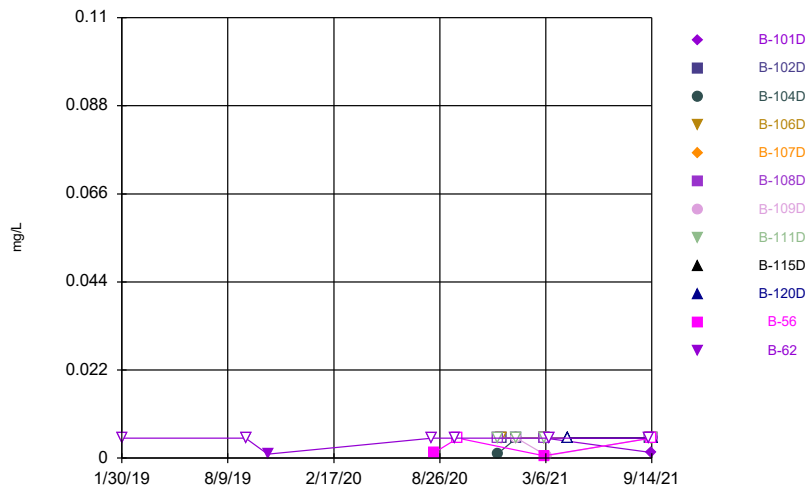
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Time Series



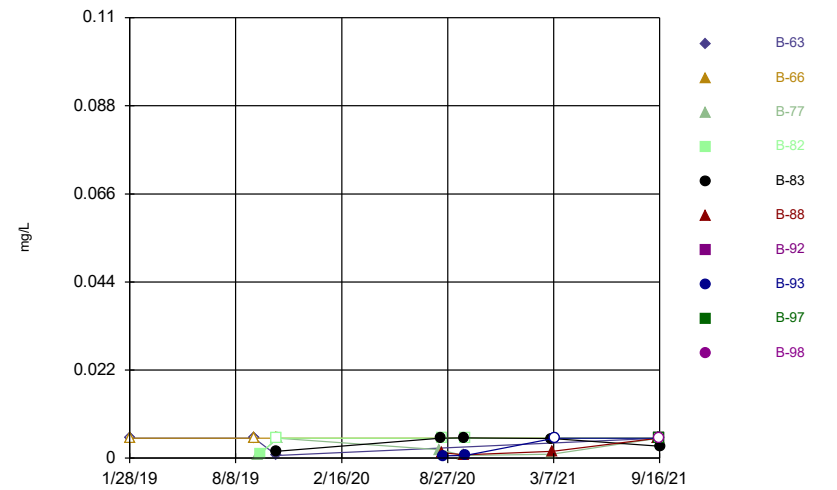
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Time Series



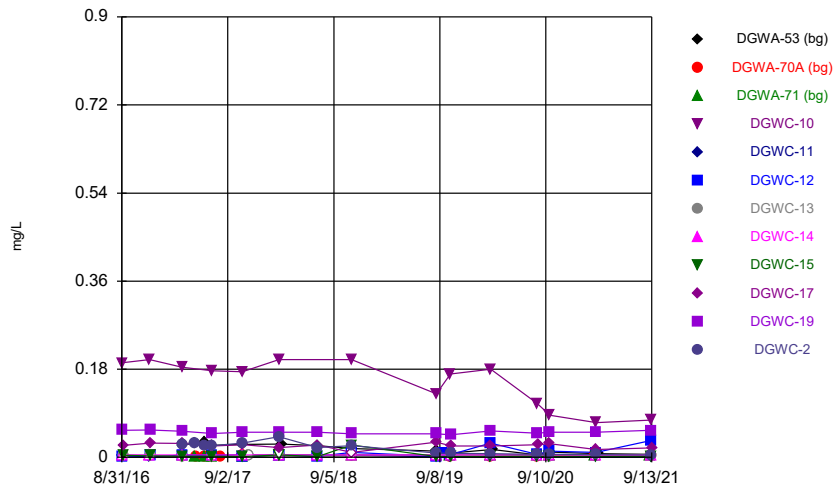
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Time Series



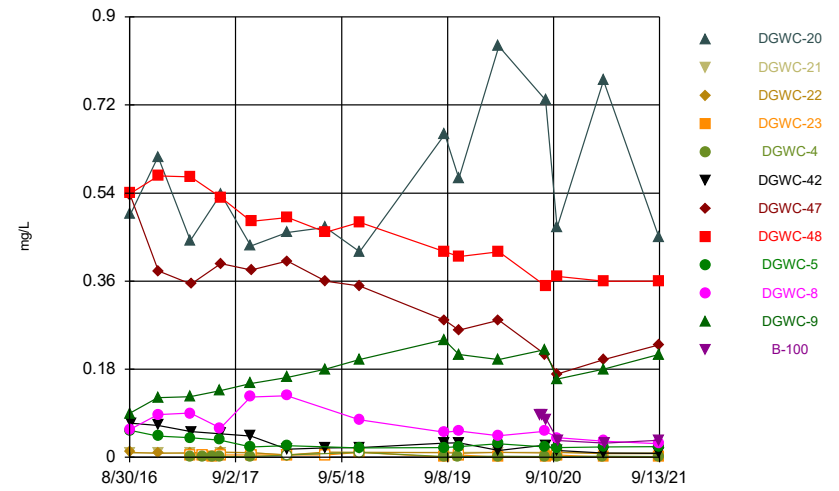
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Time Series



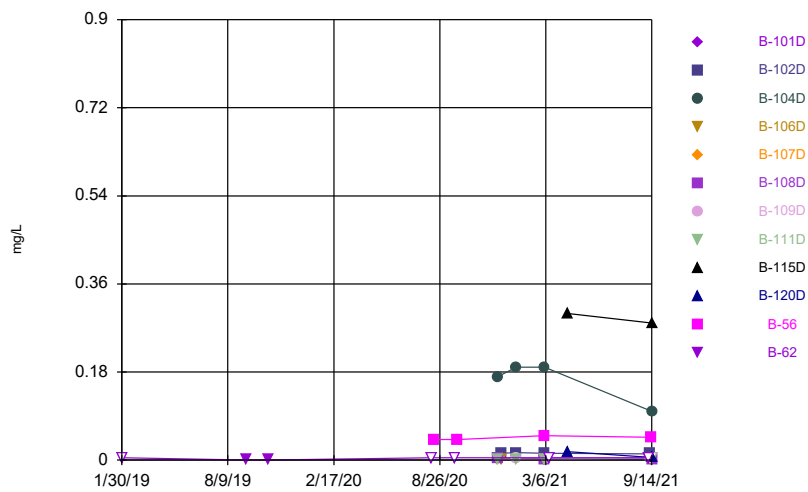
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Time Series



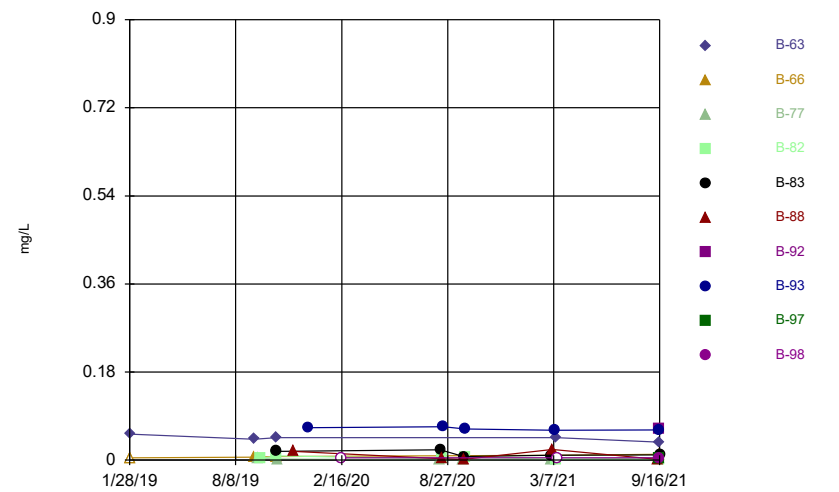
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Time Series



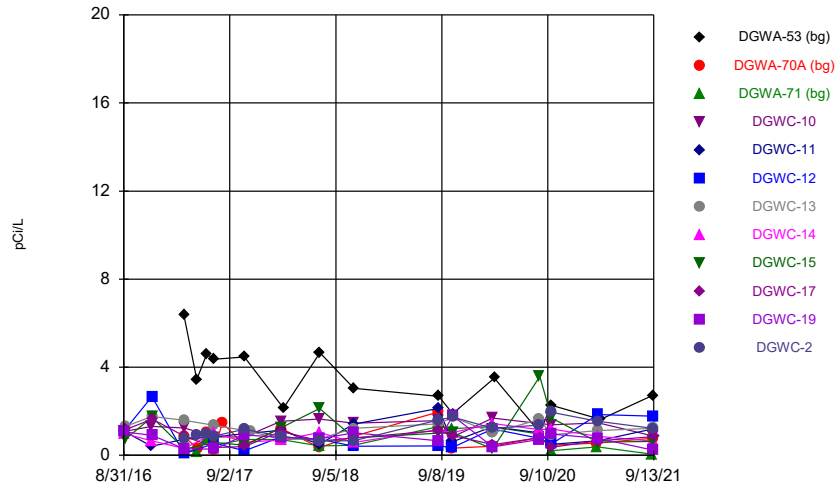
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Time Series



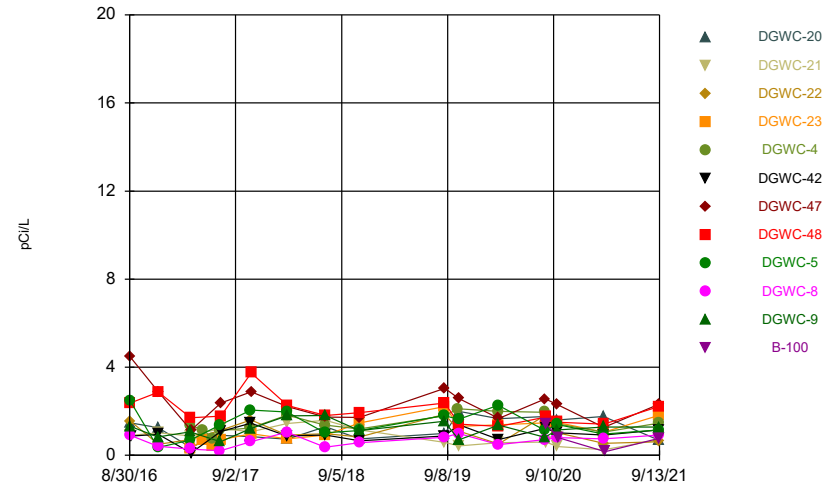
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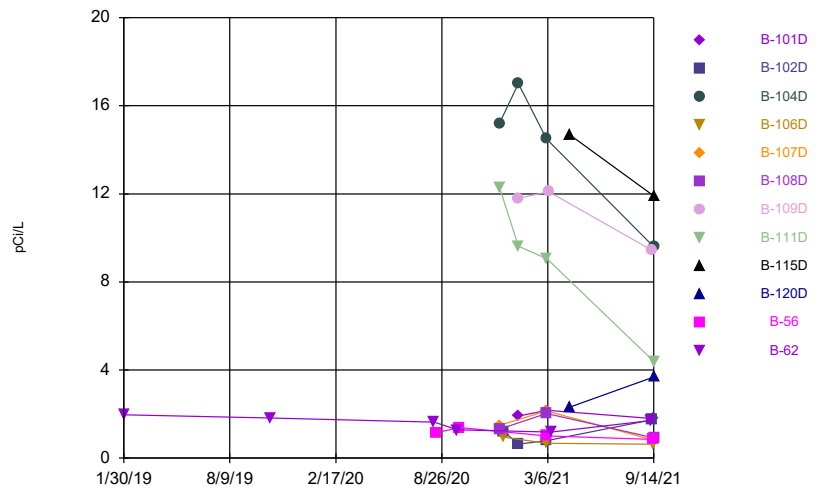
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



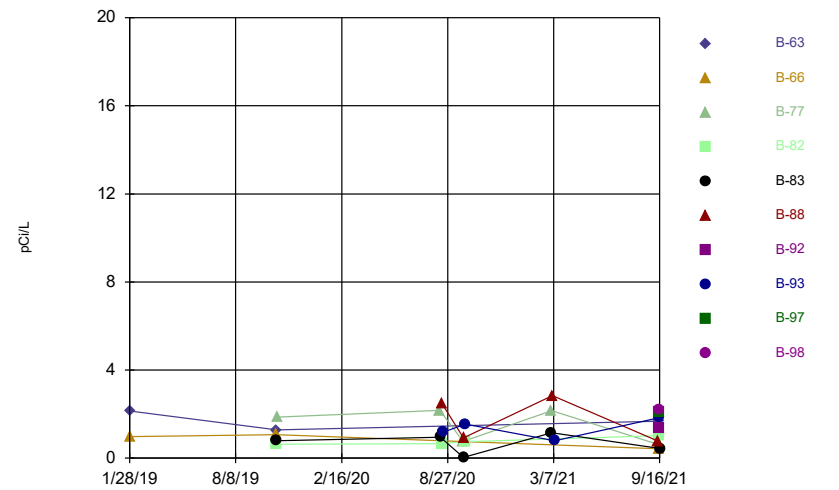
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



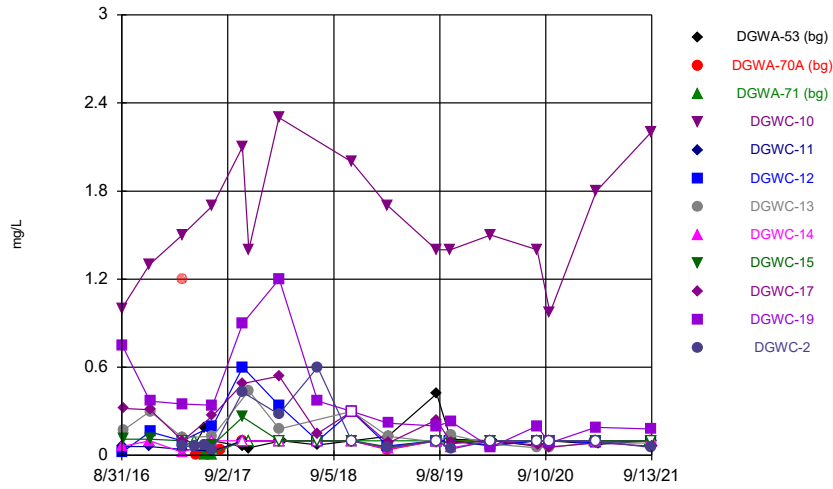
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



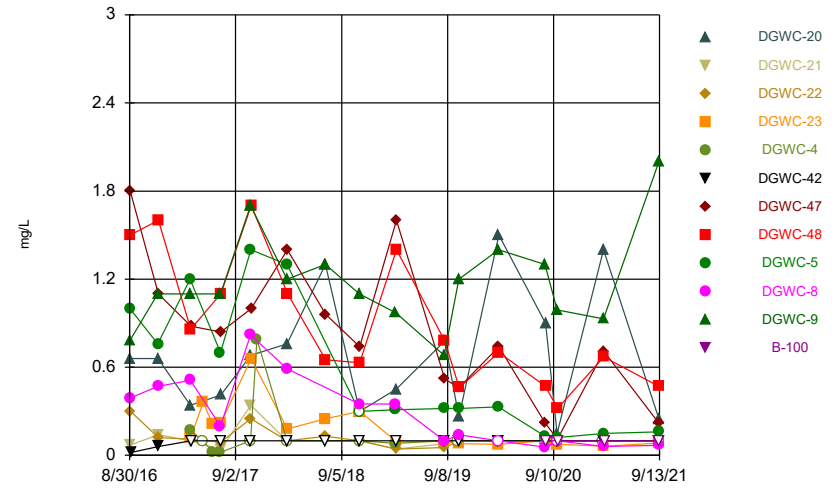
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



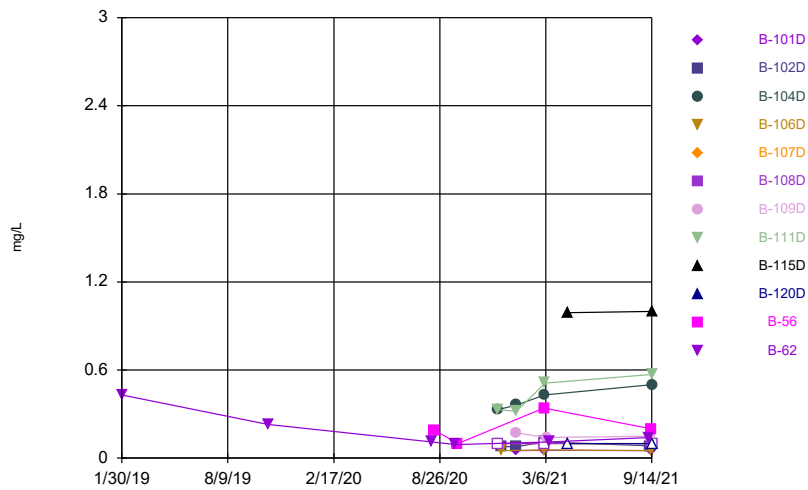
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



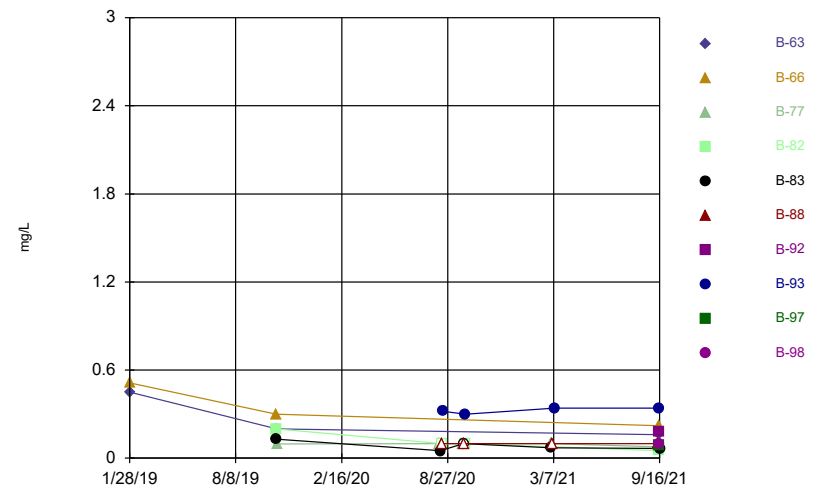
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Time Series



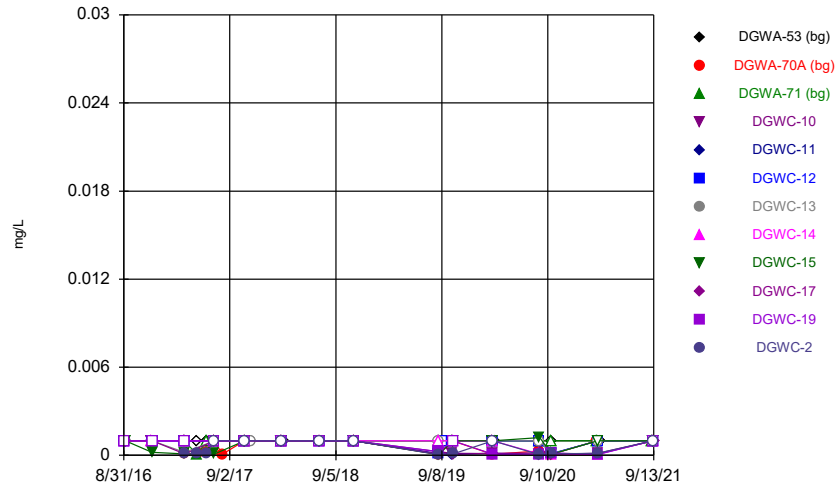
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Time Series



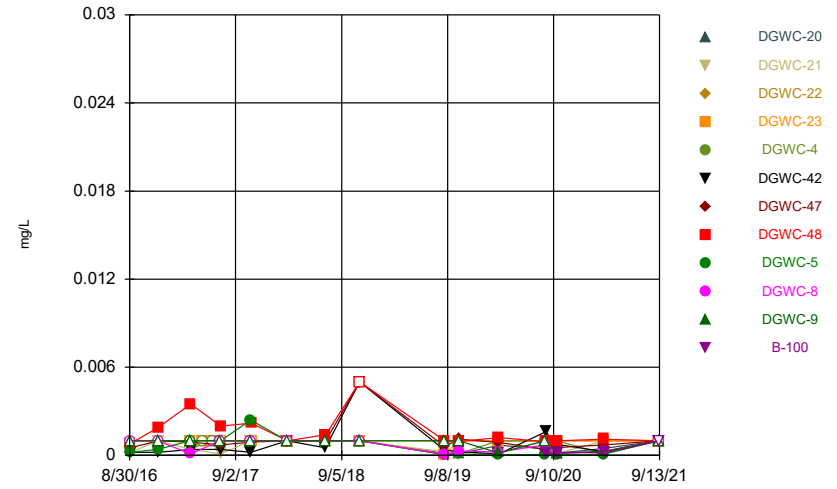
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Time Series



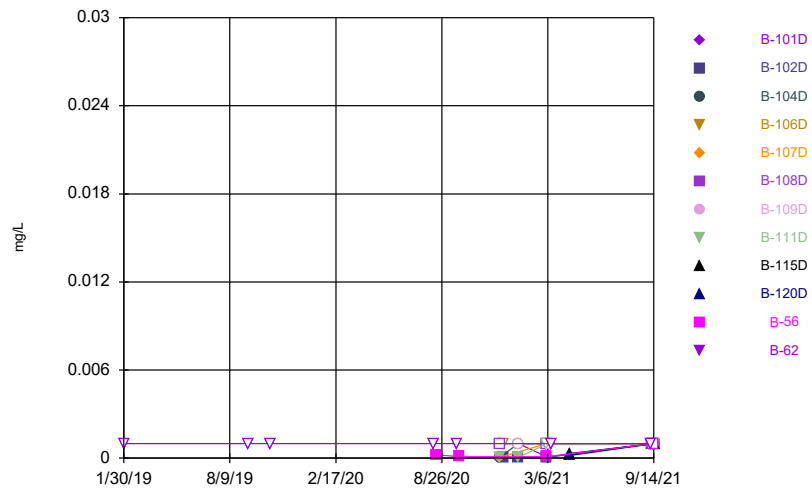
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Time Series



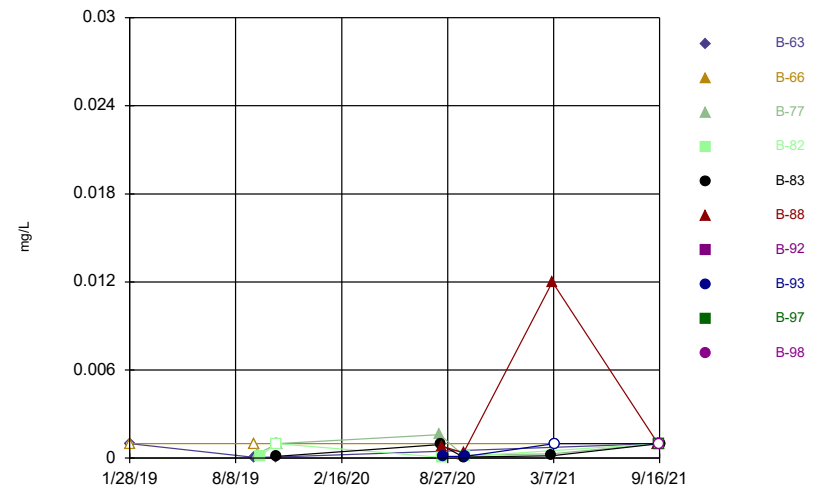
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Time Series



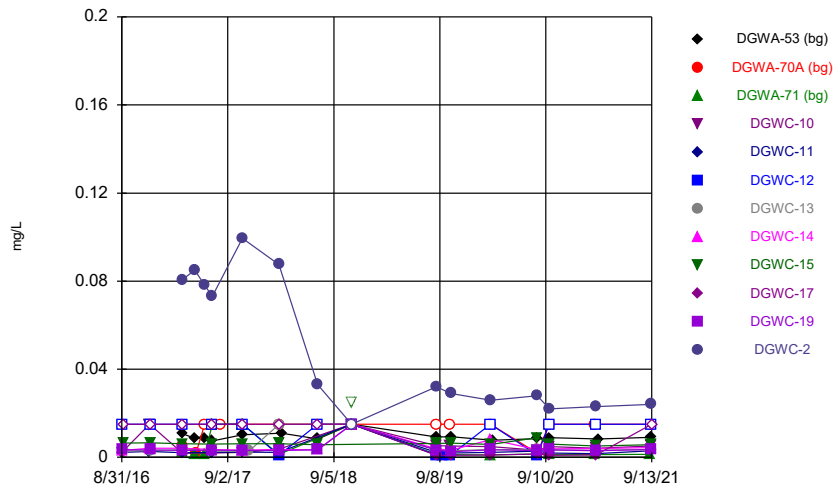
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Time Series



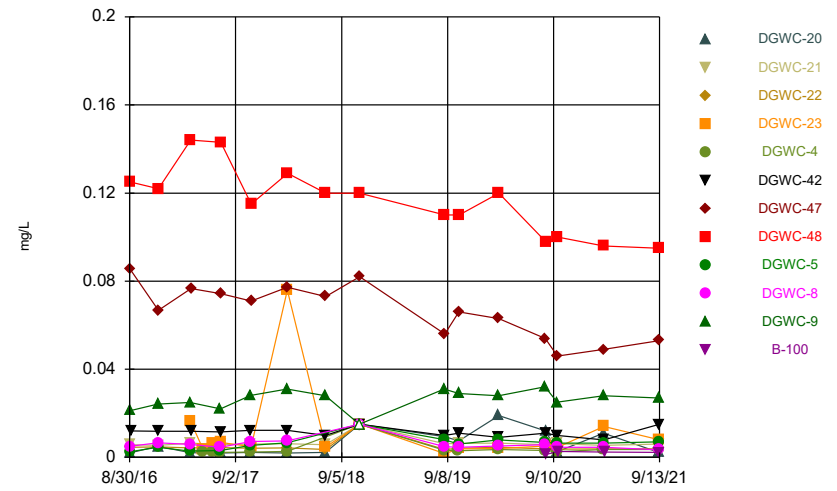
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Time Series



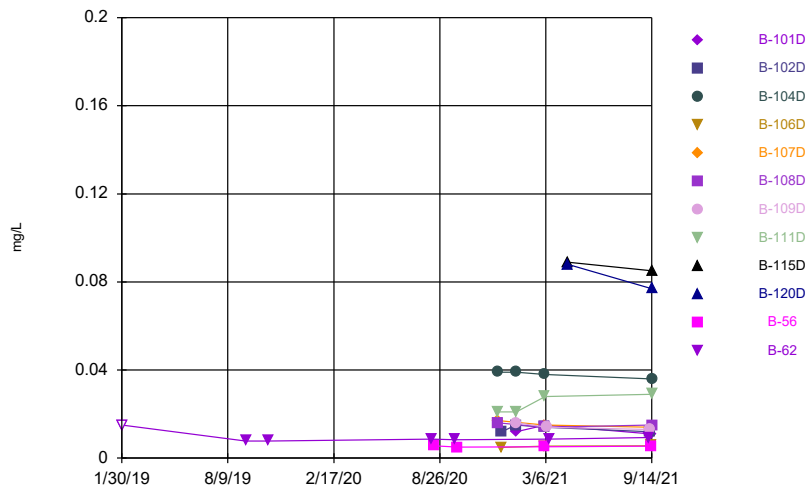
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Time Series



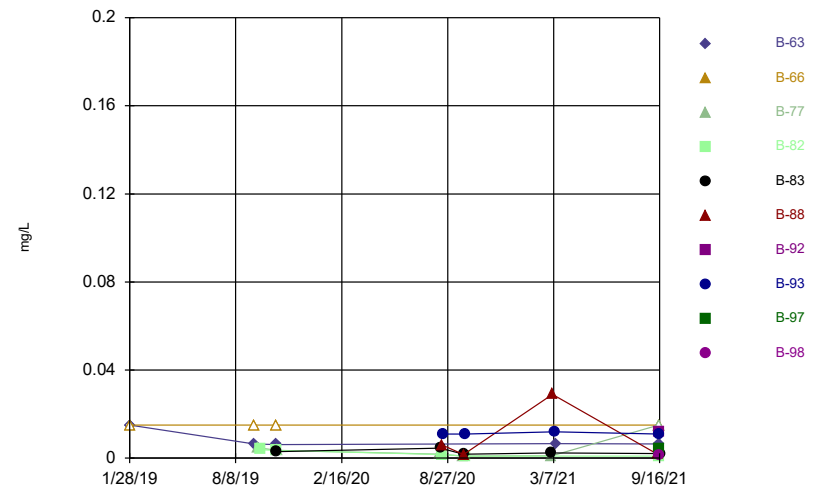
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Time Series



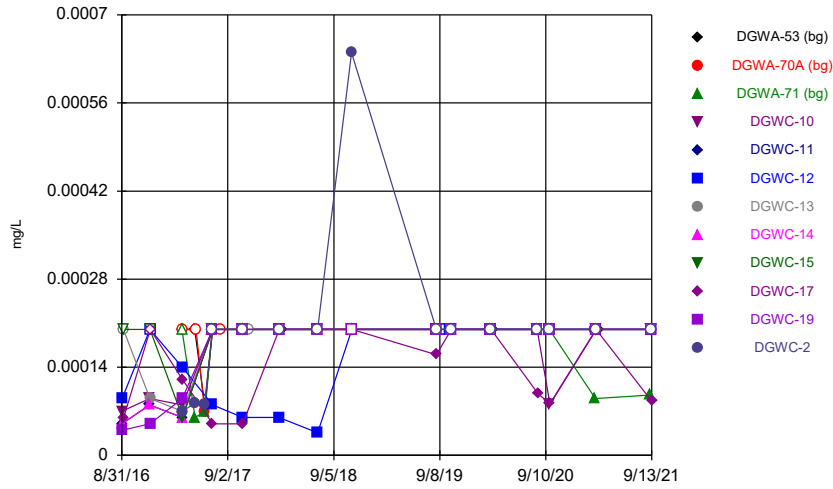
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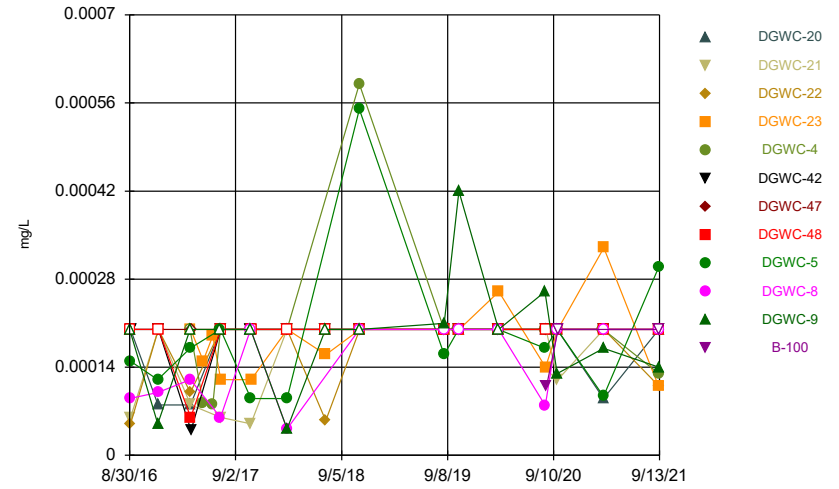
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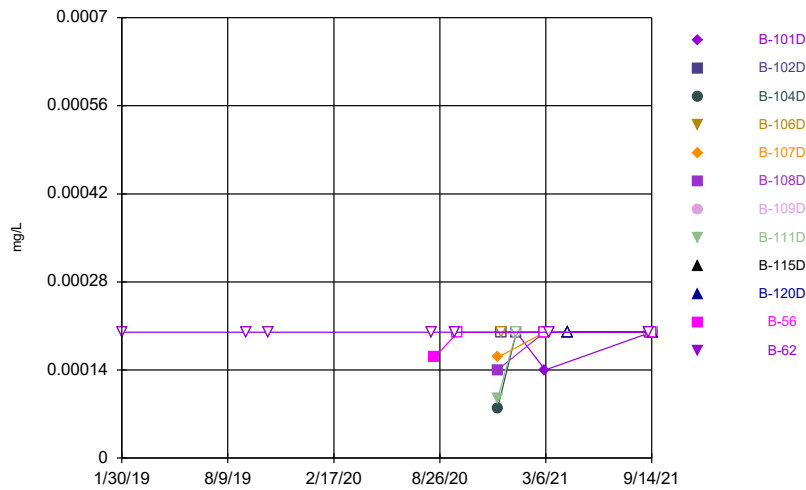
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Time Series



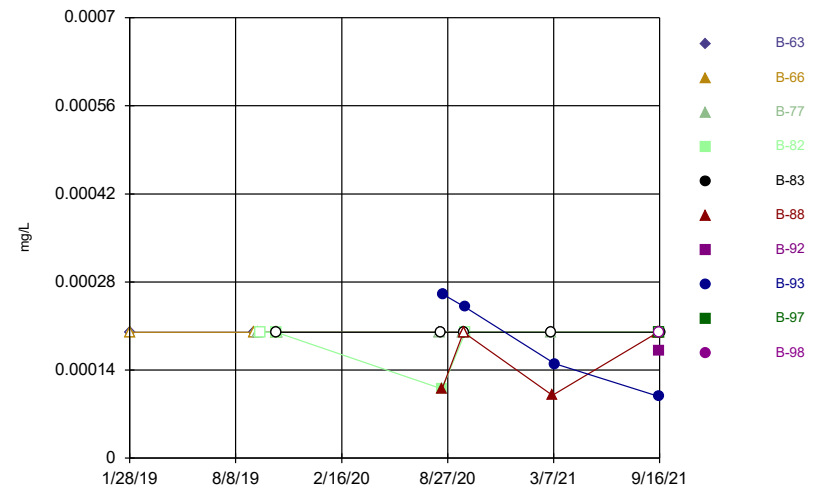
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Time Series



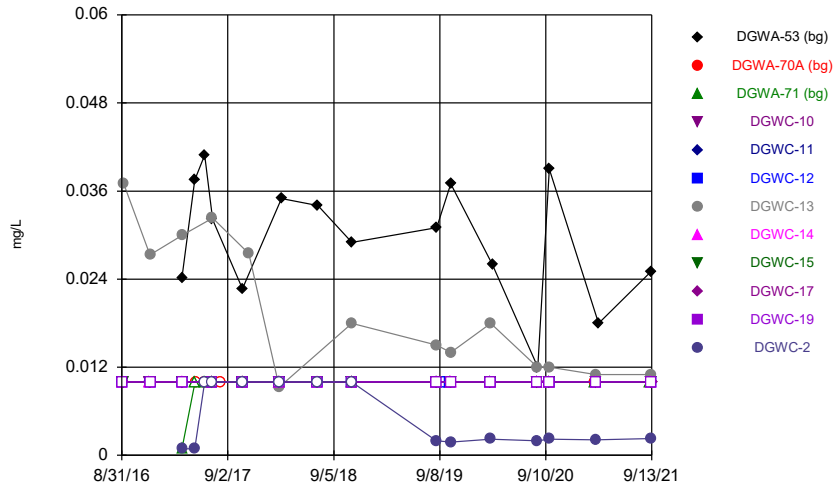
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Time Series



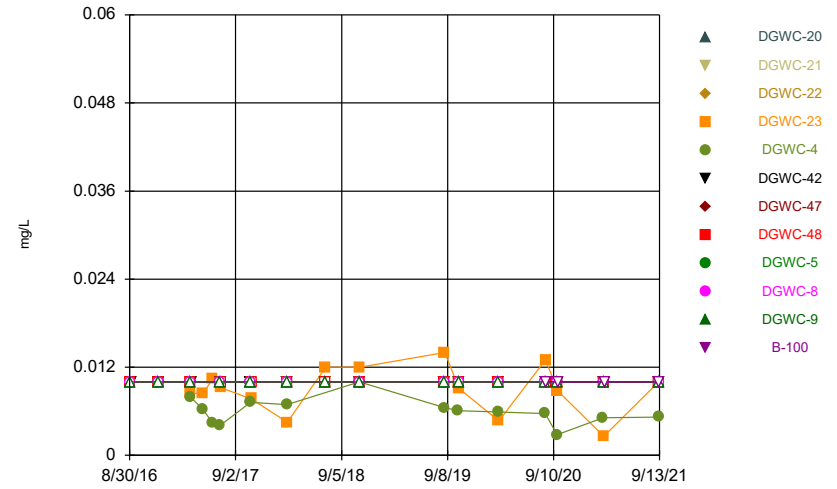
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Time Series



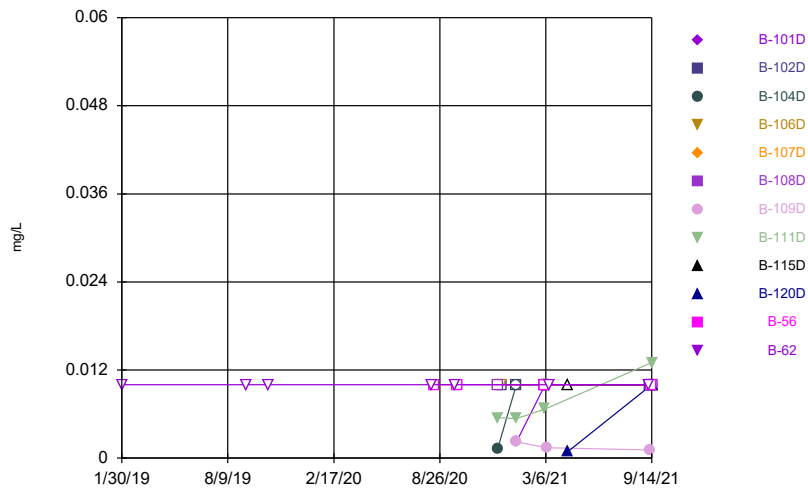
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



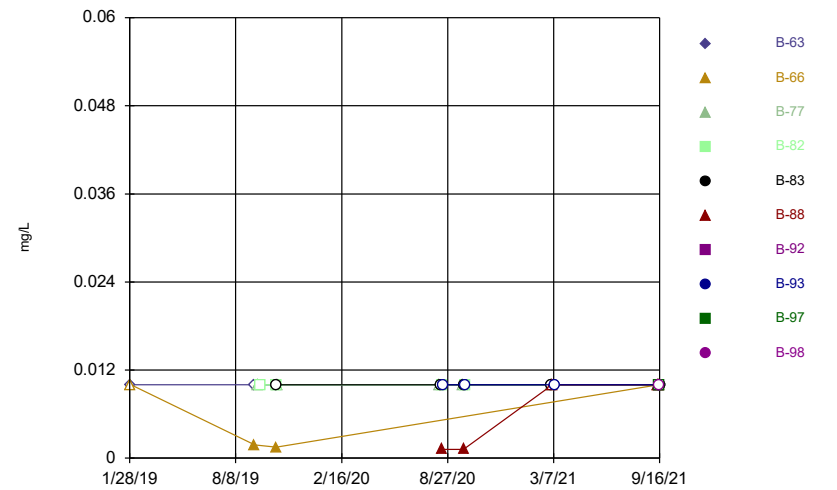
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



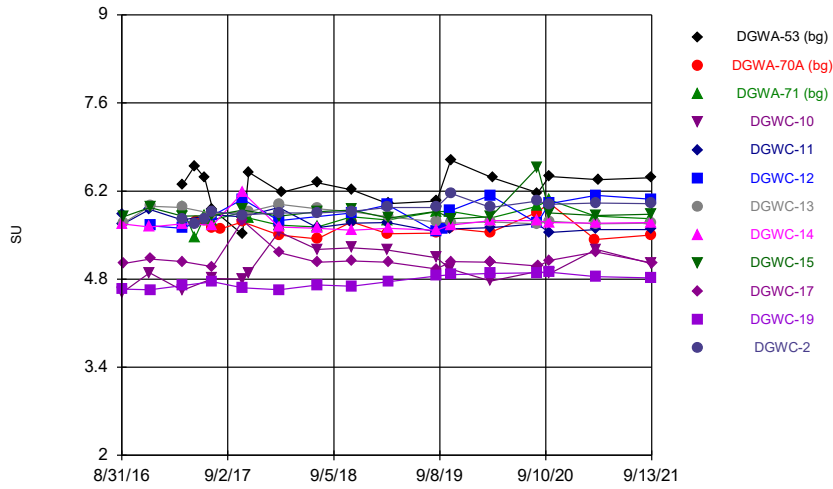
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



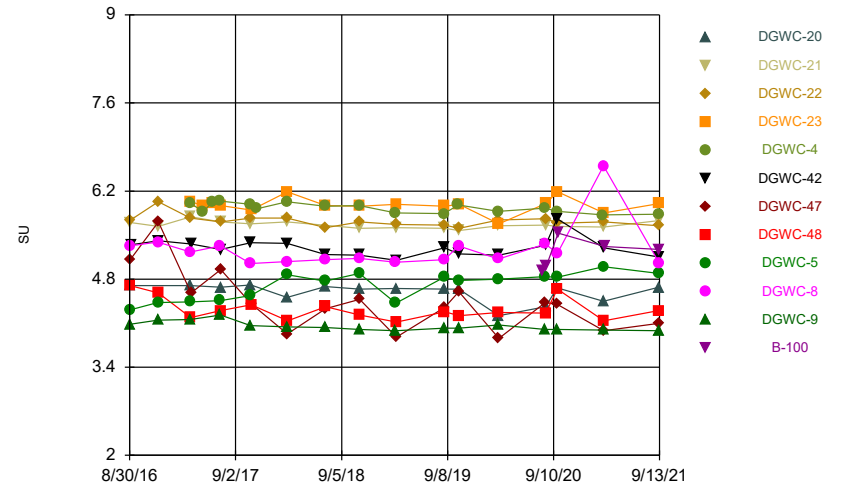
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



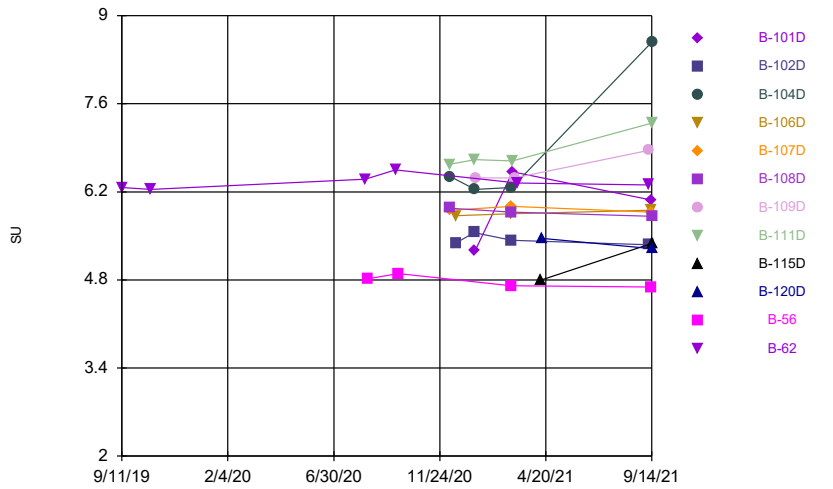
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



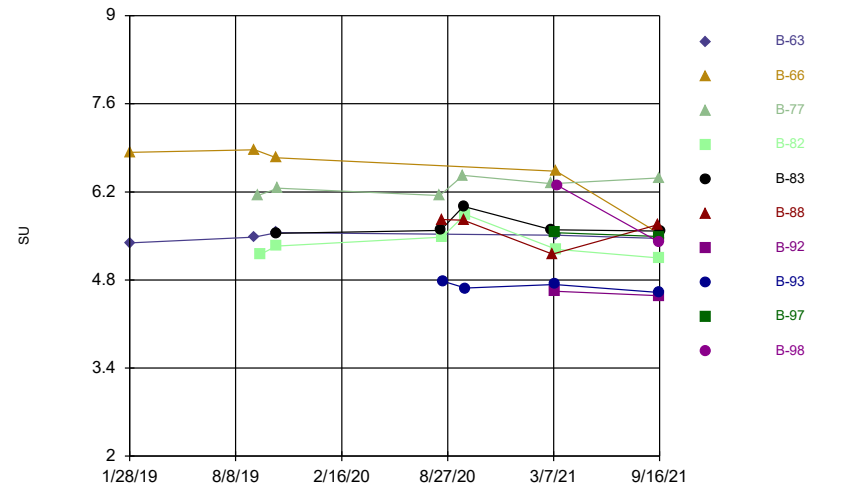
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



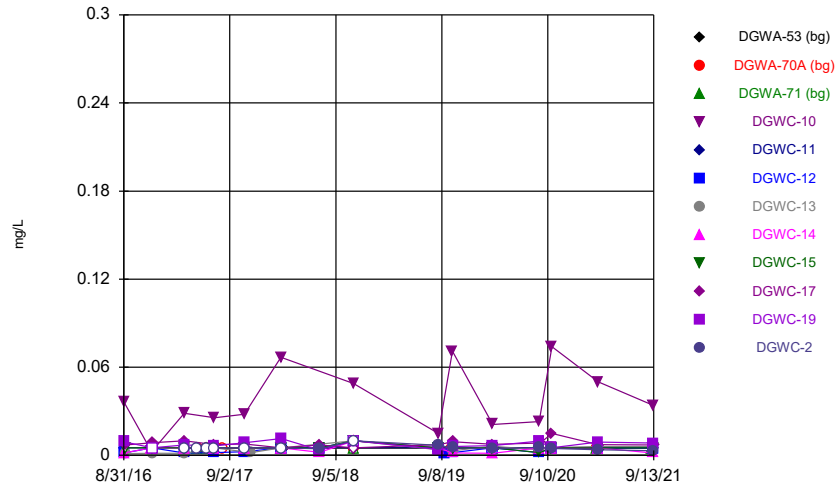
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



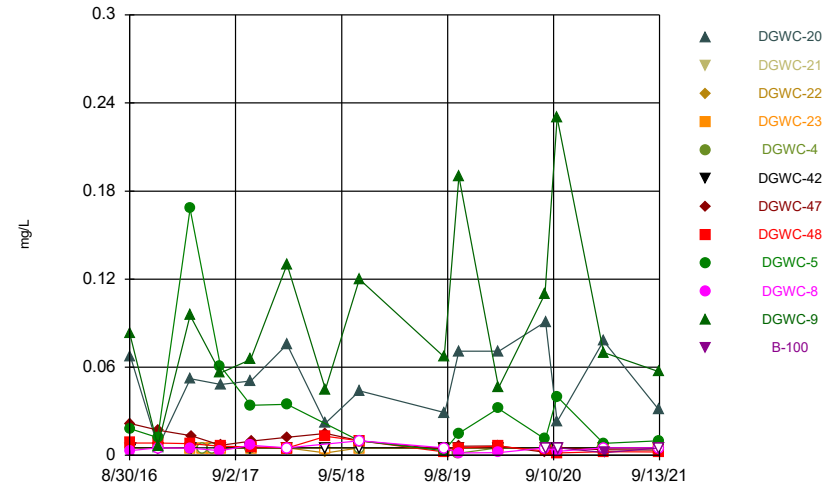
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



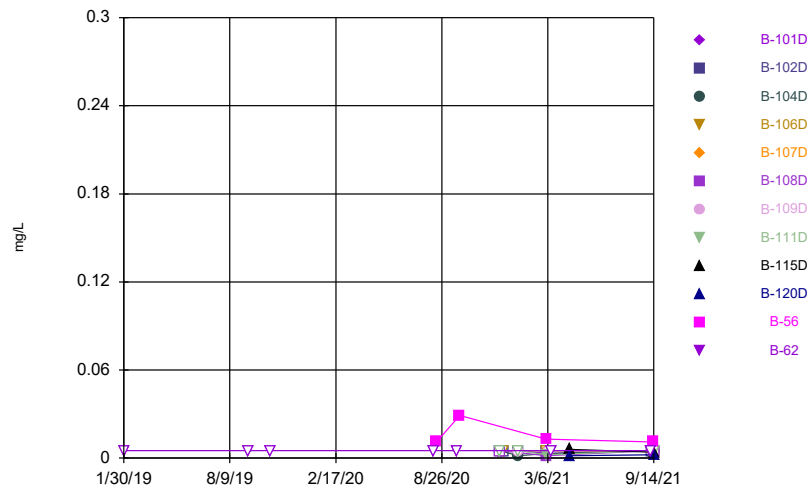
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



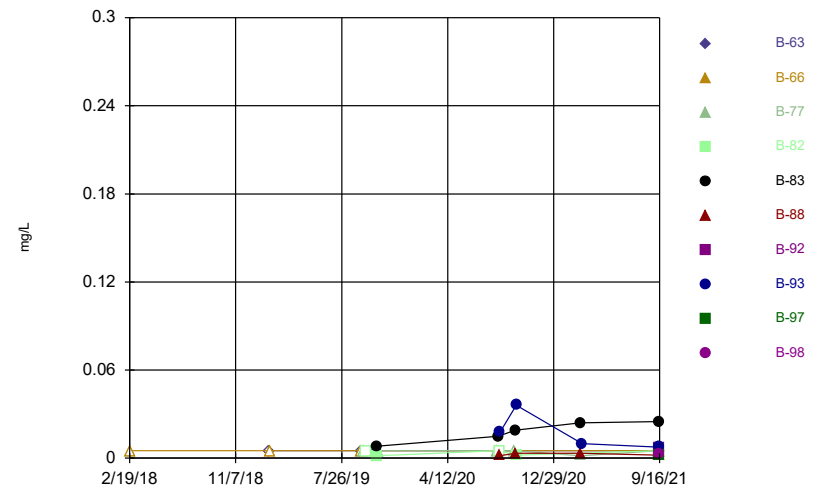
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



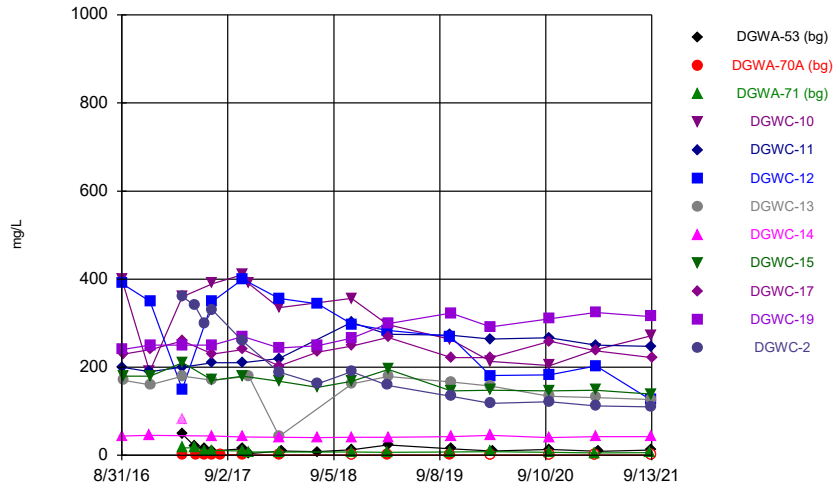
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



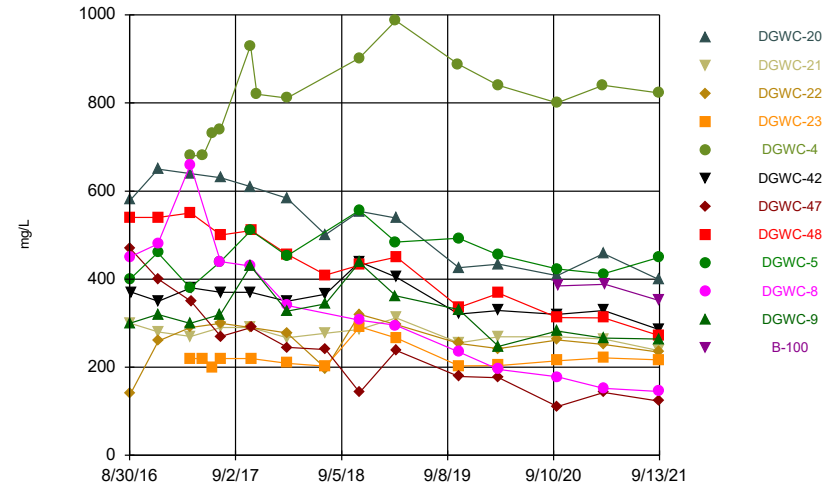
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



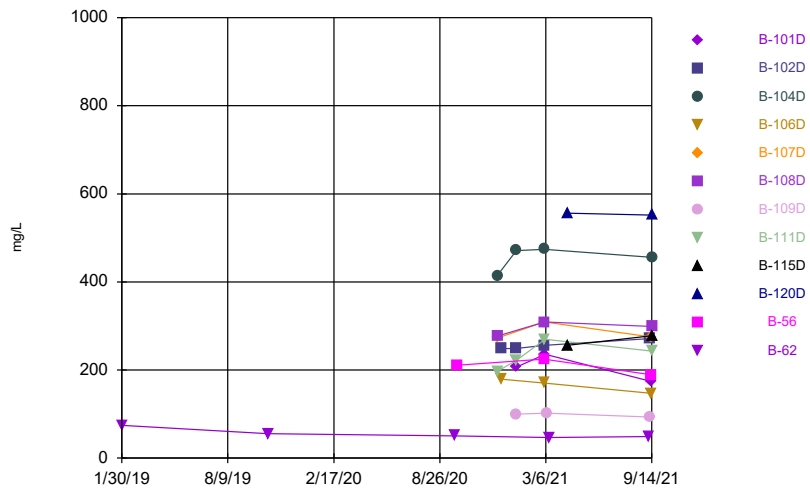
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



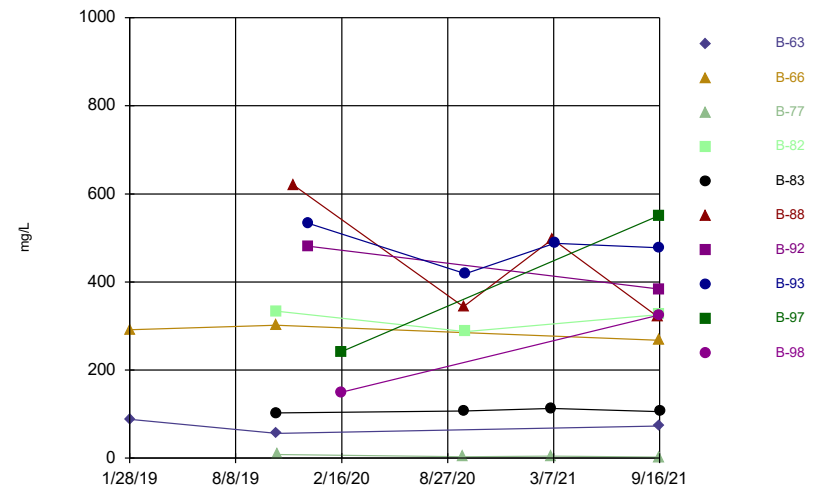
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



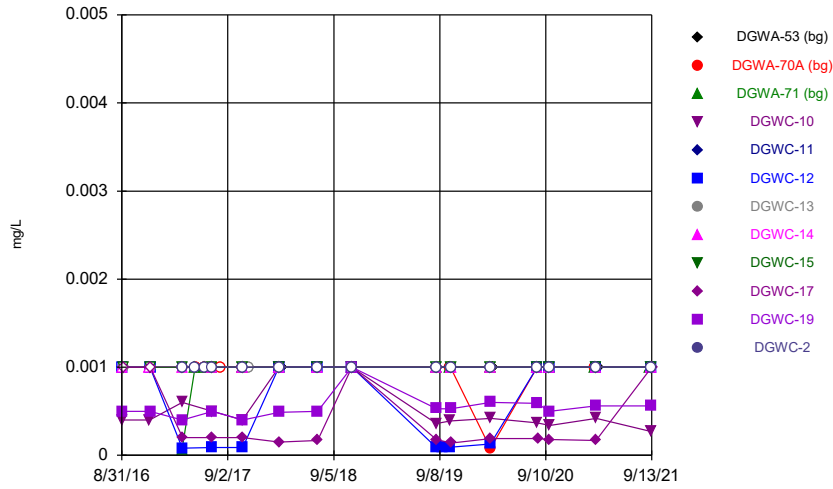
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



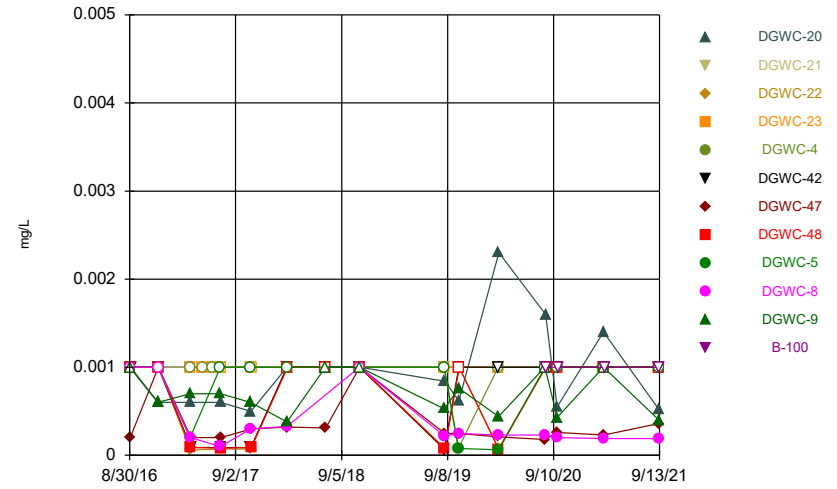
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



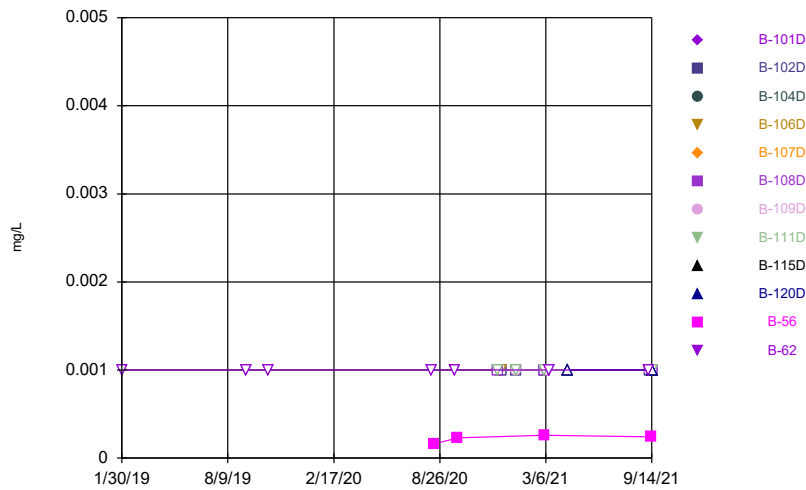
Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



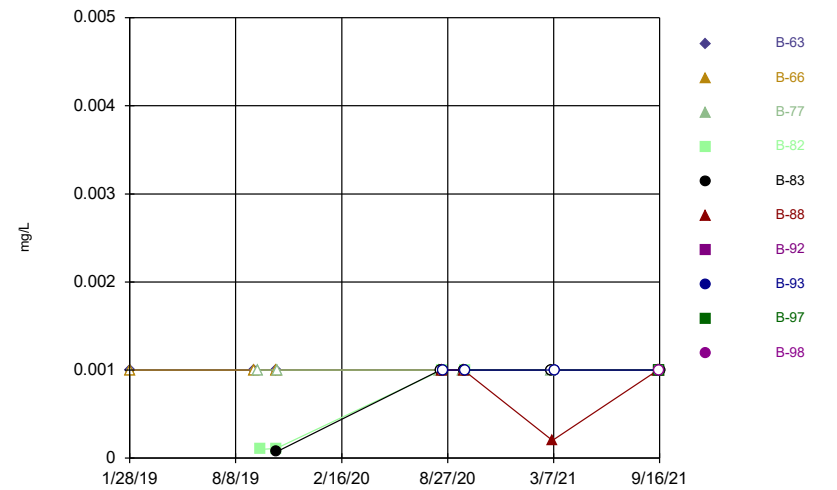
Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



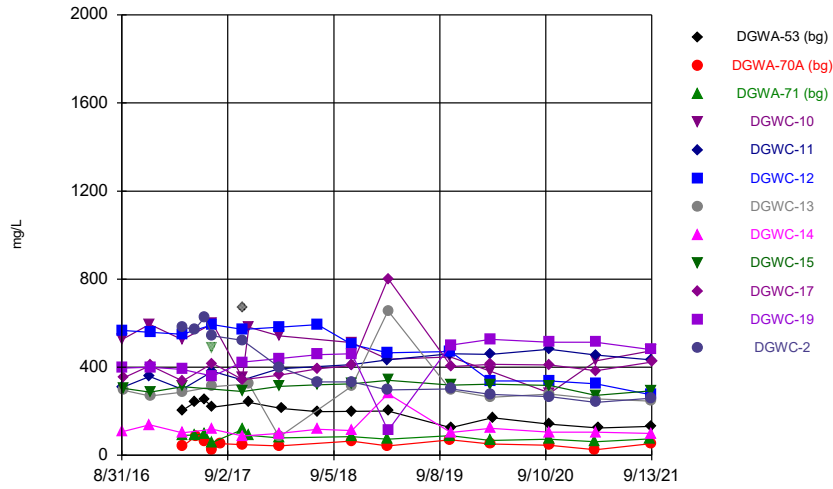
Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



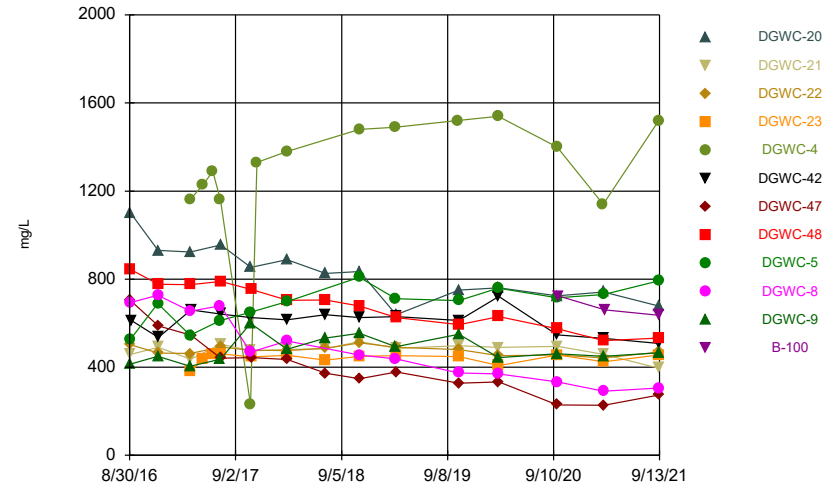
Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



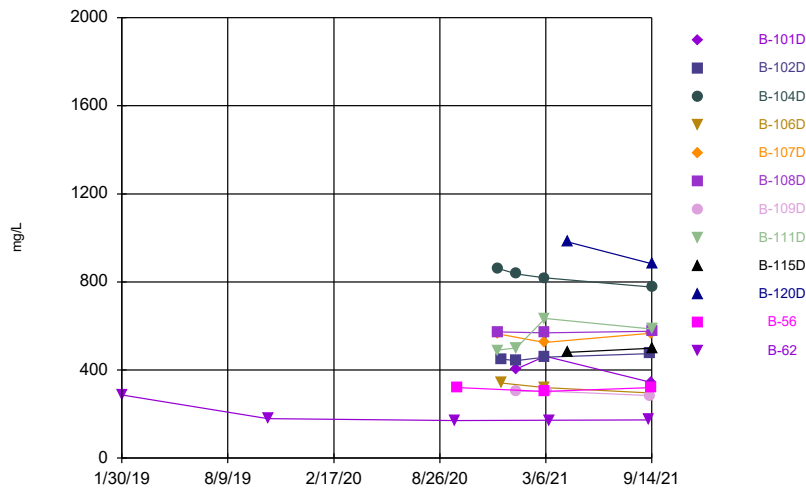
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



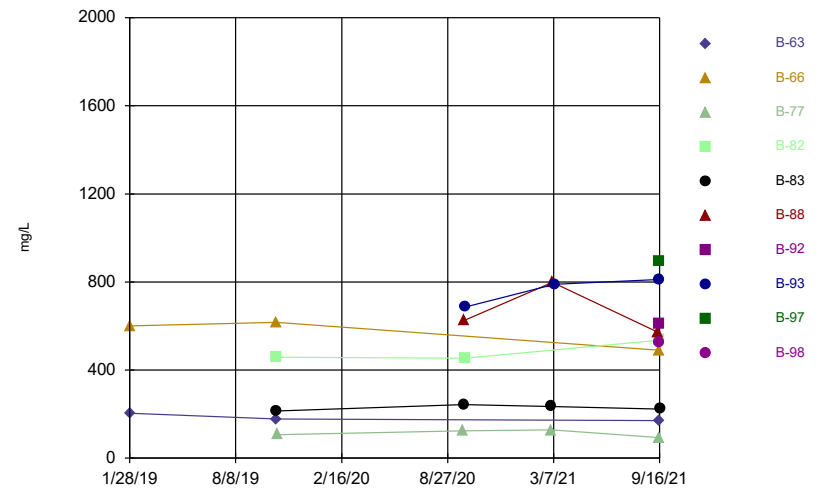
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.003	<0.003			<0.003	
9/1/2016						<0.003			
9/6/2016							<0.003		<0.003
9/7/2016									
12/6/2016				<0.003	<0.003			<0.003	
12/7/2016						<0.003	<0.003		<0.003
12/8/2016									
3/28/2017	<0.003	<0.003	0.0007 (J)						
3/29/2017				<0.003	<0.003	<0.003		<0.003	
3/30/2017							<0.003		<0.003
5/11/2017	<0.003								
5/12/2017			<0.003						
5/15/2017		<0.003							
6/15/2017	0.0006 (J)	<0.003							
6/16/2017			0.0007 (J)						
7/11/2017		<0.003	<0.003						
7/12/2017	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/8/2017		<0.003							
10/24/2017	<0.003	<0.003	<0.003	<0.003	<0.003				
10/25/2017						<0.003		<0.003	<0.003
11/15/2017							<0.003		
2/27/2018		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
2/28/2018							<0.003		<0.003
3/8/2018	<0.003								
7/11/2018						<0.003		<0.003	<0.003
7/12/2018	<0.003								
11/6/2018		<0.003	<0.003	<0.003	<0.003				
11/7/2018	<0.003					<0.003	<0.003	<0.003	<0.003
8/27/2019		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/28/2019	<0.003						<0.003		0.00033 (J)
9/17/2019						<0.003			
10/15/2019		<0.003	<0.003	<0.003	<0.003	<0.003			
10/16/2019	<0.003						<0.003	<0.003	
10/17/2019									<0.003
10/18/2019									
3/2/2020		<0.003	0.0018 (J)		<0.003	0.0003 (J)			
3/3/2020				<0.003			<0.003	<0.003	<0.003
3/4/2020									
3/9/2020	<0.003								
8/11/2020		0.0013 (J)	0.0018 (J)	<0.003	<0.003	<0.003		<0.003	
8/12/2020							<0.003		
8/13/2020	0.0003 (J)								0.00073 (J)
8/14/2020									
9/22/2020	<0.003	<0.003	<0.003		<0.003	<0.003		0.0011 (J)	
9/23/2020							<0.003		<0.003
9/24/2020				<0.003					
3/1/2021		<0.003	0.0019 (J)						
3/2/2021					<0.003		<0.003	<0.003	<0.003
3/3/2021						<0.003			
3/4/2021				<0.003					
3/12/2021	<0.003								
9/8/2021			<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.003	
9/6/2016			
9/7/2016	<0.003		
12/6/2016			
12/7/2016		<0.003	
12/8/2016	<0.003		
3/28/2017			
3/29/2017		<0.003	
3/30/2017	<0.003		<0.003
5/11/2017			<0.003
5/12/2017			
5/15/2017			
6/15/2017			0.0006 (J)
6/16/2017			
7/11/2017			<0.003
7/12/2017	<0.003	<0.003	
8/8/2017			
10/24/2017			<0.003
10/25/2017	<0.003	<0.003	
11/15/2017			
2/27/2018			<0.003
2/28/2018	<0.003	<0.003	
3/8/2018			
7/11/2018	<0.003	<0.003	<0.003
7/12/2018			
11/6/2018			<0.003
11/7/2018	<0.003	<0.003	
8/27/2019	<0.003		<0.003
8/28/2019		<0.003	
9/17/2019			
10/15/2019			
10/16/2019		<0.003	
10/17/2019			<0.003
10/18/2019	<0.003		
3/2/2020			
3/3/2020		<0.003	<0.003
3/4/2020	<0.003		
3/9/2020			
8/11/2020		<0.003	<0.003
8/12/2020			
8/13/2020			
8/14/2020	<0.003		
9/22/2020		0.00036 (J)	
9/23/2020			<0.003
9/24/2020	0.00045 (J)		
3/1/2021			
3/2/2021		<0.003	<0.003
3/3/2021	<0.003		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.003	<0.003
9/10/2021			
9/13/2021	<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		<0.003		<0.003					
9/10/2021	<0.003		<0.003		<0.003		<0.003	0.0018 (J)	<0.003
9/13/2021						<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.003	<0.003	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.003	<0.003	
12/7/2016			
12/8/2016			
3/28/2017		<0.003	
3/29/2017	<0.003		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.003	<0.003	
7/12/2017			
7/13/2017			
10/24/2017	<0.003	<0.003	
10/25/2017			
10/26/2017			
2/27/2018	<0.003	<0.003	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.003	
7/12/2018			
11/6/2018	<0.003	<0.003	
11/7/2018			
11/8/2018			
8/27/2019		<0.003	
8/28/2019	<0.003		
8/29/2019			
10/15/2019			
10/16/2019	<0.003		
10/17/2019		<0.003	
10/18/2019			
3/2/2020			
3/3/2020	<0.003	<0.003	
3/4/2020			
8/11/2020		<0.003	
8/12/2020	<0.003		
8/13/2020			
8/14/2020			
8/17/2020			0.0013 (J)
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			
9/25/2020			<0.003
3/1/2021			
3/2/2021	0.00046 (J)	<0.003	
3/3/2021			
3/8/2021			0.0017 (J)

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.003	
9/13/2021	<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.00079 (J)		<0.003	<0.003		<0.003	
12/17/2020		0.0016 (J)		0.00048 (J)					
1/11/2021		<0.003							
1/12/2021	0.00039 (J)		0.00048 (J)					<0.003	
1/13/2021							0.00042 (J)		
3/3/2021									
3/4/2021		<0.003	0.00077 (J)	<0.003	<0.003	<0.003			
3/5/2021	0.0019 (J)							0.0006 (J)	
3/8/2021							0.00084 (J)		
3/12/2021									
4/14/2021									<0.003
4/15/2021									
9/9/2021									
9/10/2021		<0.003					0.004		
9/13/2021	0.001 (J)			<0.003	<0.003				
9/14/2021			<0.003			<0.003		<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/14/2021			
4/15/2021	0.00029 (J)		
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021	<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.003								
1/30/2019		<0.003							
9/11/2019	<0.003								
9/12/2019		<0.003							
9/18/2019			<0.003						
9/23/2019				<0.003					
10/21/2019		<0.003		<0.003	<0.003				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
8/13/2020			0.00043 (J)						
8/14/2020					<0.003				
8/17/2020				<0.003		<0.003			
8/19/2020								<0.003	
9/24/2020			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019
1/30/2019
9/11/2019
9/12/2019
9/18/2019
9/23/2019
10/21/2019
10/22/2019
10/24/2019
8/13/2020
8/14/2020
8/17/2020
8/19/2020
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0058	<0.005			<0.005	
9/1/2016						<0.005			
9/6/2016							<0.005		<0.005
9/7/2016									
12/6/2016				0.0017 (J)	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
12/8/2016									
3/28/2017	0.0005 (J)	<0.005	<0.005						
3/29/2017				0.0055	<0.005	<0.005		<0.005	
3/30/2017							<0.005		0.0006 (J)
5/11/2017	0.0005 (J)								
5/12/2017			0.0004 (J)						
5/15/2017		<0.005							
6/15/2017	<0.005	<0.005							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017		<0.005							
10/24/2017	<0.005	<0.005	<0.005	0.0058	<0.005				
10/25/2017						0.0006 (J)		<0.005	<0.005
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	0.0105	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		<0.005	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	<0.005 (J)	<0.005				
11/7/2018	<0.005 (J)					<0.005	<0.005	<0.005	<0.005
8/27/2019		<0.005	<0.005	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019	<0.005						<0.005		<0.005
9/17/2019						<0.005			
10/15/2019		0.00052 (J)	0.00071 (J)	0.0078	<0.005	0.00063 (J)			
10/16/2019	0.0018 (J)						<0.005	0.00039 (J)	
10/17/2019									0.00064 (J)
10/18/2019									
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.0025 (J)			<0.005	<0.005	<0.005
3/4/2020									
3/9/2020	0.00068 (J)								
8/11/2020		<0.005	<0.005	0.0028 (J)	<0.005	<0.005		<0.005	
8/12/2020							<0.005		
8/13/2020	<0.005								0.0013 (J)
8/14/2020									
9/22/2020	0.00093 (J)	<0.005	<0.005		<0.005	<0.005		<0.005	
9/23/2020							<0.005		<0.005
9/24/2020				0.0078					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		<0.005	<0.005	<0.005
3/3/2021						<0.005			
3/4/2021				0.006					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0022 (J)	
9/6/2016			
9/7/2016	<0.005		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	<0.005		
3/28/2017			
3/29/2017		0.002 (J)	
3/30/2017	0.0008 (J)		<0.005
5/11/2017			<0.005
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	<0.005	0.0016 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0007 (J)	0.0022 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	0.00073 (J)	0.0028 (J)	
3/8/2018			
7/11/2018	<0.005	0.0009 (J)	<0.005
7/12/2018			
11/6/2018			<0.005
11/7/2018	<0.005	<0.005 (J)	
8/27/2019	<0.005		0.00099 (J)
8/28/2019		0.00049 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00046 (J)	
10/17/2019			<0.005
10/18/2019	0.0012 (J)		
3/2/2020			
3/3/2020		<0.005	0.0025 (J)
3/4/2020	0.0014 (J)		
3/9/2020			
8/11/2020		0.0014 (J)	<0.005
8/12/2020			
8/13/2020			
8/14/2020	<0.005		
9/22/2020		0.0017 (J)	
9/23/2020			<0.005
9/24/2020	0.0011 (J)		
3/1/2021			
3/2/2021		0.0013 (J)	<0.005
3/3/2021	<0.005		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0027 (J)	<0.005
9/10/2021			
9/13/2021	<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0035 (J)
9/1/2016							0.0037 (J)	<0.005	
9/2/2016	0.0159	<0.005	<0.005						
9/7/2016						<0.005			
12/6/2016									0.0032 (J)
12/7/2016	0.0037 (J)								
12/8/2016		<0.005	<0.005			<0.005	0.0032 (J)	<0.005	
3/28/2017					0.0005 (J)				0.0385
3/29/2017	0.015		<0.005						
3/30/2017		<0.005		<0.005				0.0015 (J)	
3/31/2017						0.0007 (J)	0.0031 (J)		
5/12/2017				<0.005	0.0005 (J)				
6/15/2017				<0.005	<0.005				
7/11/2017					0.0008 (J)				0.0203
7/12/2017	0.0121	<0.005		<0.005					
7/13/2017			<0.005			<0.005	0.0018 (J)	0.0012 (J)	
10/24/2017					<0.005				
10/25/2017	0.0135	<0.005	<0.005			<0.005			0.0119
10/26/2017				<0.005			0.0016 (J)	0.0008 (J)	
2/27/2018					<0.005				0.0094
2/28/2018	0.0177	<0.005	0.001 (J)			0.0011 (J)			
3/1/2018				<0.005			0.0029 (J)		
3/2/2018								0.0017 (J)	
7/11/2018	0.0055	<0.005				<0.005			
7/12/2018			<0.005	<0.005			0.0023 (J)	0.0015 (J)	
11/6/2018					<0.005				<0.005
11/7/2018	0.0054	<0.005	<0.005			<0.005	<0.005 (J)	<0.005	
11/8/2018				<0.005					
8/27/2019					<0.005				<0.005
8/28/2019						<0.005			
8/29/2019	0.0064	<0.005	<0.005	<0.005			0.00089 (J)	<0.005	
10/15/2019					<0.005				
10/16/2019									0.0036 (J)
10/17/2019	0.0094	<0.005				<0.005	0.0013 (J)		
10/18/2019			<0.005	<0.005				0.00079 (J)	
3/2/2020					<0.005				0.0052
3/3/2020		<0.005	<0.005						
3/4/2020	0.029			<0.005		<0.005	0.0012 (J)	0.0006 (J)	
7/23/2020									
8/11/2020									
8/12/2020					<0.005		0.00081 (J)		0.002 (J)
8/13/2020	0.014			<0.005		<0.005		<0.005	
8/14/2020		<0.005	<0.005						
8/17/2020									
9/22/2020	0.0063				<0.005	<0.005			0.0062
9/23/2020							<0.005	<0.005	
9/24/2020		<0.005	<0.005	<0.005					
9/25/2020									
3/1/2021					<0.005				
3/2/2021	0.019								0.0013 (J)
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/8/2021									
9/9/2021		<0.005		<0.005					
9/10/2021	0.0083		<0.005		<0.005		0.0016 (J)	<0.005	0.0031 (J)
9/13/2021						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.005	0.0241	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.005	<0.005	
12/7/2016			
12/8/2016			
3/28/2017		0.0243	
3/29/2017	0.001 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0012 (J)	0.0194	
7/12/2017			
7/13/2017			
10/24/2017	0.0015 (J)	0.0249	
10/25/2017			
10/26/2017			
2/27/2018	0.002 (J)	0.0405	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.016	
7/12/2018			
11/6/2018	<0.005	0.017	
11/7/2018			
11/8/2018			
8/27/2019		0.021	
8/28/2019	<0.005		
8/29/2019			
10/15/2019			
10/16/2019	<0.005		
10/17/2019		0.033	
10/18/2019			
3/2/2020			
3/3/2020	0.00096 (J)	0.015	
3/4/2020			
7/23/2020			<0.005
8/11/2020		0.022	
8/12/2020	<0.005		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		0.04	
9/23/2020	<0.005		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.021	
3/3/2021			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/8/2021			<0.005
9/9/2021			
9/10/2021		0.031	
9/13/2021	<0.005		<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0025 (J)	<0.005	<0.005	<0.005			
3/5/2021	0.0017 (J)							0.0023 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.0028 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			0.0019 (J)			<0.005		0.0029 (J)	0.0018 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.0032 (J)	
9/24/2020			<0.005
9/28/2020		0.0047 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021	<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/21/2019		<0.005		<0.005	<0.005				
10/22/2019	<0.005								
10/24/2019			0.0029 (J)						
8/13/2020			0.002 (J)						
8/14/2020					<0.005				
8/17/2020				<0.005		<0.005			
8/19/2020								0.0013 (J)	
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

11/22/2016
2/19/2018
1/28/2019
1/30/2019
9/11/2019
9/12/2019
9/18/2019
9/23/2019
10/21/2019
10/22/2019
10/24/2019
8/13/2020
8/14/2020
8/17/2020
8/19/2020
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
3/12/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0321	0.0545			0.0576	
9/1/2016						0.0254			
9/6/2016							0.0297		0.0497
9/7/2016									
12/6/2016				0.029	0.0564			0.0608	
12/7/2016						0.0241	0.0266		0.0469
12/8/2016									
3/28/2017	0.134	0.0166	0.0378						
3/29/2017				0.0335	0.0565	0.0268		0.0693	
3/30/2017							0.0308		0.0495
5/11/2017	0.126								
5/12/2017			0.04						
5/15/2017		0.0181							
6/15/2017	0.14	0.0277							
6/16/2017			0.0369						
7/11/2017		0.0306	0.0362						
7/12/2017	0.173			0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
8/8/2017		0.0277							
10/24/2017	0.109	0.0333	0.0313	0.0317	0.0596				
10/25/2017						0.0268		0.0563	0.0474
11/15/2017							0.0309		
2/27/2018		0.0341	0.0287	0.028	0.0672	0.0255		0.0591	
2/28/2018							<0.01		0.0455
3/8/2018	0.19								
7/11/2018						0.026		0.061	0.05
7/12/2018	0.18								
11/6/2018		0.037	0.026	0.025	0.074				
11/7/2018	0.15					0.028	0.034	0.055	0.042
8/27/2019		0.037	0.027	0.021	0.071	0.024		0.059	
8/28/2019	0.087						0.033		0.047
9/17/2019						0.02			
10/15/2019		0.034	0.024	0.024	0.064	0.02			
10/16/2019	0.077						0.034	0.059	
10/17/2019									0.046
10/18/2019									
3/2/2020		0.035	0.026		0.071	0.04			
3/3/2020				0.024			0.035	0.064	0.05
3/4/2020									
3/9/2020	0.099								
8/11/2020		0.041	0.026	0.024	0.064	0.028		0.061	
8/12/2020							0.032		
8/13/2020	0.046								0.06
8/14/2020									
9/22/2020	0.07	0.038	0.024		0.058	0.036		0.06	
9/23/2020							0.03		0.043
9/24/2020				0.021					
3/1/2021		0.042	0.028						
3/2/2021					0.052		0.03	0.064	0.043
3/3/2021						0.035			
3/4/2021				0.025					
3/12/2021	0.076								
9/8/2021			0.025						

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Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0214	
9/6/2016			
9/7/2016	0.0694		
12/6/2016			
12/7/2016		0.0191	
12/8/2016	0.062		
3/28/2017			
3/29/2017		0.0209	
3/30/2017	0.0615		0.0232
5/11/2017			0.0231
5/12/2017			
5/15/2017			
6/15/2017			0.0223
6/16/2017			
7/11/2017			0.0201
7/12/2017	0.0532	0.0212	
8/8/2017			
10/24/2017			0.0206
10/25/2017	0.0544	0.021	
11/15/2017			
2/27/2018			0.0207
2/28/2018	0.0527	0.0213	
3/8/2018			
7/11/2018	0.053	0.023	0.022
7/12/2018			
11/6/2018			0.021
11/7/2018	0.044	0.024	
8/27/2019	0.05		0.023
8/28/2019		0.026	
9/17/2019			
10/15/2019			
10/16/2019		0.024	
10/17/2019			0.022
10/18/2019	0.045		
3/2/2020			
3/3/2020		0.028	0.022
3/4/2020	0.044		
3/9/2020			
8/11/2020		0.027	0.022
8/12/2020			
8/13/2020			
8/14/2020	0.046		
9/22/2020		0.026	
9/23/2020			0.023
9/24/2020	0.033		
3/1/2021			
3/2/2021		0.026	0.023
3/3/2021	0.036		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.025	0.022
9/10/2021			
9/13/2021	0.031		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		0.023		0.021					
9/10/2021	0.0098		0.027		0.032		0.021	0.013	0.015
9/13/2021						0.014			

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0435	0.0162	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0431	0.0138	
12/7/2016			
12/8/2016			
3/28/2017		0.017	
3/29/2017	0.044		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0389	0.0154 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0369	0.0148	
10/25/2017			
10/26/2017			
2/27/2018	0.0346	0.0148	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.017	
7/12/2018			
11/6/2018	0.027	0.015	
11/7/2018			
11/8/2018			
8/27/2019		0.016	
8/28/2019	0.025		
8/29/2019			
10/15/2019			
10/16/2019	0.027		
10/17/2019		0.015	
10/18/2019			
3/2/2020			
3/3/2020	0.026	0.016	
3/4/2020			
8/11/2020		0.016	
8/12/2020	0.034		
8/13/2020			
8/14/2020			
8/17/2020			0.015
9/22/2020		0.015	
9/23/2020	0.025		
9/24/2020			
9/25/2020			0.022
3/1/2021			
3/2/2021	0.029	0.017	
3/3/2021			
3/8/2021			0.022

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.014	
9/13/2021	0.019		0.021

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.026		0.13	0.066		0.027	
12/17/2020		0.022		0.022					
1/11/2021		0.024							
1/12/2021	0.076		0.022					0.027	
1/13/2021							0.06		
3/3/2021									
3/4/2021		0.022	0.021	0.021	0.12	0.06			
3/5/2021	0.064							0.038	
3/8/2021							0.056		
3/12/2021									
4/14/2021									0.018
4/15/2021									
9/9/2021									
9/10/2021		0.02					0.022		
9/13/2021	0.076			0.02	0.087				
9/14/2021			0.021			0.06		0.043	0.016

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			0.018
9/11/2019			0.023
10/21/2019			0.026
8/13/2020			0.026
8/17/2020		0.03	
9/24/2020			0.025
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/14/2021			
4/15/2021	0.044		
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021	0.031		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.028								
1/30/2019		0.016							
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
8/13/2020			0.11						
8/14/2020					0.056				
8/17/2020				0.024		0.022			
8/19/2020								0.018	
9/24/2020			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				

Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.082
9/16/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0019 (J)	
9/6/2016			
9/7/2016	0.0006 (J)		
12/6/2016			
12/7/2016		0.0021 (J)	
12/8/2016	0.0005 (J)		
3/28/2017			
3/29/2017		0.0017 (J)	
3/30/2017	0.0006 (J)		<0.0005
5/11/2017			<0.0005
5/12/2017			
5/15/2017			
6/15/2017			<0.0005
6/16/2017			
7/11/2017			<0.0005
7/12/2017	0.0005 (J)	0.0018 (J)	
8/8/2017			
10/24/2017			<0.0005
10/25/2017	0.0005 (J)	0.0019 (J)	
11/15/2017			
2/27/2018			<0.0005
2/28/2018	<0.0005	<0.0005	
3/8/2018			
7/10/2018			
7/11/2018	0.00058 (J)	0.002 (J)	<0.0005
7/12/2018			
11/6/2018			<0.0005
11/7/2018	<0.0005	<0.003 (J)	
8/27/2019	0.00066 (J)		<0.0005
8/28/2019		0.0018 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0017 (J)	
10/17/2019			<0.0005
10/18/2019	0.00071 (J)		
3/2/2020			
3/3/2020		0.0021 (J)	<0.0005
3/4/2020	0.00062 (J)		
3/9/2020			
8/11/2020		0.002 (J)	<0.0005
8/12/2020			
8/13/2020			
8/14/2020	0.00064 (J)		
9/22/2020		0.002 (J)	
9/23/2020			<0.0005
9/24/2020	0.0006 (J)		
3/1/2021			
3/2/2021		0.0019	<0.0005
3/3/2021	0.00056		
3/4/2021			
3/12/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/8/2021			
9/9/2021		0.0022	<0.0005
9/10/2021			
9/13/2021	0.00052		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		0.00018 (J)		0.0005 (J)					
9/10/2021	0.0024		0.00014 (J)		0.00028 (J)		0.009	0.007	0.0075
9/13/2021						0.0024			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0018 (J)	0.0045	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0034	0.005	
12/7/2016			
12/8/2016			
3/28/2017		0.0052	
3/29/2017	0.0031		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0022 (J)	0.0048	
7/12/2017			
7/13/2017			
10/24/2017	0.0042	0.0051	
10/25/2017			
10/26/2017			
2/27/2018	0.0047	0.0057	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.0058	
7/12/2018			
11/6/2018	<0.003 (J)	0.006	
11/7/2018			
11/8/2018			
8/27/2019		0.007	
8/28/2019	0.0021 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.0019 (J)		
10/17/2019		0.0063	
10/18/2019			
3/2/2020			
3/3/2020	0.0018 (J)	0.0048	
3/4/2020			
8/11/2020		0.0062	
8/12/2020	0.0018 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.0004 (J)
9/22/2020		0.0049	
9/23/2020	0.0015 (J)		
9/24/2020			
9/25/2020			0.00035 (J)
3/1/2021			
3/2/2021	0.0012	0.005	
3/3/2021			
3/8/2021			0.00046 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0049	
9/13/2021	0.0015		0.00053

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0013 (J)		<0.0005	<0.0005		<0.0005	
12/17/2020		0.0014 (J)		0.00012 (J)					
1/11/2021		0.0013 (J)							
1/12/2021	6.6E-05 (J)		0.0015 (J)					<0.0005	
1/13/2021							5.9E-05 (J)		
3/3/2021									
3/4/2021		0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005			
3/5/2021	4.7E-05 (J)							<0.0005	
3/8/2021							7.9E-05 (J)		
3/12/2021									
4/14/2021									0.012
4/15/2021									
9/9/2021									
9/10/2021		0.0011					<0.0005		
9/13/2021	6.7E-05 (J)			0.00013 (J)	<0.0005				
9/14/2021			0.0011			<0.0005		<0.0005	0.011

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0005
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.00085		
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021	0.00087		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
2/19/2018	0.00049 (J)	<0.0005							
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.0005
2/27/2020									0.0019 (J)
8/13/2020			0.00014 (J)						
8/14/2020					0.0007 (J)				
8/17/2020				0.0014 (J)		0.0014 (J)			
8/19/2020								0.015	
9/24/2020			5.3E-05 (J)						
9/25/2020					0.00028 (J)	0.00063 (J)			
9/28/2020				0.0015 (J)				0.015	
3/4/2021			5.7E-05 (J)		0.00037 (J)				
3/5/2021						0.005			
3/9/2021							0.017	0.017	0.0019
3/15/2021									
9/13/2021						0.001			
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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10/7/2016	
11/22/2016	
2/19/2018	
1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
12/18/2019	
12/19/2019	
2/17/2020	<0.0005
2/27/2020	<0.0005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/15/2021	<0.0005
9/13/2021	
9/14/2021	
9/15/2021	0.00087
9/16/2021	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		3.08	
9/6/2016			
9/7/2016	0.683		
12/6/2016			
12/7/2016		3.34	
12/8/2016	0.688		
3/28/2017			
3/29/2017		3.96	
3/30/2017	0.743		1.56
5/11/2017			1.65
5/12/2017			
5/15/2017			
6/15/2017			1.44
6/16/2017			
7/11/2017			1.39
7/12/2017	0.62	2.82	
8/8/2017			
10/24/2017			1.18
10/25/2017	0.739	3.19	
11/15/2017			
2/27/2018			1.12
2/28/2018	0.627	2.91	
3/8/2018			
7/11/2018	0.79	3.7	0.82
7/12/2018			
11/6/2018			0.9
11/7/2018	1.6	2.6	
3/12/2019			0.72
3/13/2019	0.76	2.6	
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019		2.2	
10/17/2019			0.73
10/18/2019	0.82		
3/2/2020			
3/3/2020		3.1	0.68
3/4/2020	0.85		
3/9/2020			
9/22/2020		2.6	
9/23/2020			0.57
9/24/2020	0.88		
3/1/2021			
3/2/2021		2.3	0.52
3/3/2021	0.71		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		2.7	0.51
9/10/2021			
9/13/2021	0.78		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									7.5
9/1/2016							0.345	0.955	
9/2/2016	6.77	4.81	3.99						
9/7/2016						0.924			
12/6/2016									5.64
12/7/2016	6.04								
12/8/2016		3.57	3.1			0.957	0.352	0.919	
3/28/2017					4.01				6.16
3/29/2017	8.23		4.85						
3/30/2017		5.68		4.68				0.925	
3/31/2017						0.989	0.312		
5/12/2017				4.03	3.58				
6/15/2017				4.11	3.58				
7/11/2017					3.85				4.61
7/12/2017	6.81	5.2		3.74					
7/13/2017			3.85			1.03	0.28	0.972	
10/24/2017					3.82				
10/25/2017	8.94	7.92	3.9			0.982			4
10/26/2017				4.07			0.269	0.746	
2/27/2018					4.06				4.29
2/28/2018	6.26	5.89	5.14			0.918			
3/1/2018				4.37			0.296		
3/2/2018								0.878	
7/11/2018	5.7	8.3				0.83			
7/12/2018			3.6	4			0.26	0.82	
11/6/2018					4.1				4.2
11/7/2018	5	4.9	3.3			0.89	0.3	0.74	
11/8/2018				4.7					
3/12/2019					4.6				4.3
3/13/2019	5.6	6.2							
3/14/2019			4.1	4.7		0.89	0.26	0.72	
10/15/2019					5				
10/16/2019									4.3
10/17/2019	5	7				0.94	0.25		
10/18/2019			4.2	4.5				0.74	
3/2/2020					5.9				5.5
3/3/2020		6.8	4.6						
3/4/2020	3.6			4.8		1	0.24	0.77	
9/22/2020	4.9				4.3	0.88			4.6
9/23/2020							0.21	0.65	
9/24/2020		6.1	4.1	4.6					
9/25/2020									
3/1/2021					4.7				
3/2/2021	3.4								4.3
3/3/2021		5.3	3.9	4		0.87	0.17	0.57	
3/8/2021									
9/9/2021		5.8		4.7					
9/10/2021	4.8		4.5		5		0.16	0.55	4.7
9/13/2021						0.95			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	2.63	1.72	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	2.72	1.92	
12/7/2016			
12/8/2016			
3/28/2017		2.01	
3/29/2017	3.04		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	2.55	1.78	
7/12/2017			
7/13/2017			
10/24/2017	2.29	1.72	
10/25/2017			
10/26/2017			
2/27/2018	2.07	1.68	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		1.4	
7/12/2018			
11/6/2018	1.7	1.4	
11/7/2018			
11/8/2018			
3/12/2019	1.5	1.2	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	1.2		
10/17/2019		1.2	
10/18/2019			
3/2/2020			
3/3/2020	1.5	1.1	
3/4/2020			
9/22/2020		0.78	
9/23/2020	1		
9/24/2020			
9/25/2020			0.27
3/1/2021			
3/2/2021	0.96	0.77	
3/3/2021			
3/8/2021			0.24
9/9/2021			
9/10/2021		0.54	
9/13/2021	0.86		0.24

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			0.26 (J)		11.7	6.7		0.34 (J)	
12/17/2020		2.4		1.4					
1/11/2021		2.7							
1/12/2021	1.7		0.28					0.26	
1/13/2021							0.46		
3/3/2021									
3/4/2021		2.5	0.26	1.4	12	6.4			
3/5/2021	1.9							0.44	
3/8/2021							0.55		
3/12/2021									
4/14/2021									0.69
4/15/2021									
9/9/2021									
9/10/2021		2.5					0.41		
9/13/2021	1.6			1.3	10.7				
9/14/2021			0.23			6.8		0.32	0.61

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/14/2021			
4/15/2021	1.9		
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021	1.7		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
1/28/2019	0.44								
1/30/2019		2							
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				

Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

11/22/2016
1/28/2019
1/30/2019
9/11/2019
9/12/2019
9/18/2019
9/23/2019
10/21/2019
10/22/2019
10/24/2019
11/22/2019
12/18/2019
12/19/2019
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

2.6

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0012	<0.0005			<0.0005	
9/1/2016						0.0004 (J)			
9/6/2016							<0.0005		<0.0005
9/7/2016									
12/6/2016				0.0013	<0.0005			<0.0005	
12/7/2016						0.0003 (J)	0.0002 (J)		9E-05 (J)
12/8/2016									
3/28/2017	<0.0005	<0.0005	<0.0005						
3/29/2017				0.0013	<0.0005	0.0003 (J)		<0.0005	
3/30/2017							8E-05 (J)		9E-05 (J)
5/11/2017	8E-05 (J)								
5/12/2017			<0.0005						
5/15/2017		<0.0005							
6/15/2017	<0.0005	<0.0005							
6/16/2017			<0.0005						
7/11/2017		<0.0005	<0.0005						
7/12/2017	<0.0005			0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005
8/8/2017		<0.0005							
10/24/2017	<0.0005	<0.0005	<0.0005	0.0014	<0.0005				
10/25/2017						0.0004 (J)		<0.0005	<0.0005
11/15/2017							<0.0005		
2/27/2018		<0.0005	<0.0005	0.001	<0.0005	<0.0005		<0.0005	
2/28/2018							<0.0005		<0.0005
3/8/2018	<0.0005								
7/11/2018						0.00033 (J)		<0.0005	<0.0005
7/12/2018	0.00013 (J)								
11/6/2018		<0.0005	<0.0005	0.0012	<0.0005				
11/7/2018	<0.0005					<0.001 (J)	<0.0005	<0.0005	<0.001 (J)
8/27/2019		<0.0005	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005	
8/28/2019	<0.0005						<0.0005		<0.0005
9/17/2019						0.00035 (J)			
10/15/2019		<0.0005	<0.0005	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019	<0.0005						<0.0005	<0.0005	
10/17/2019									<0.0005
10/18/2019									
3/2/2020		0.00041 (J)	<0.0005		<0.0005	<0.0005			
3/3/2020				0.00095 (J)			<0.0005	<0.0005	0.00012 (J)
3/4/2020									
3/9/2020	<0.0005								
8/11/2020		<0.0005	<0.0005	0.00071 (J)	<0.0005	0.00038 (J)		<0.0005	
8/12/2020							<0.0005		
8/13/2020	<0.0005								0.00013 (J)
8/14/2020									
9/22/2020	<0.0005	<0.0005	<0.0005		0.00016 (J)	0.00017 (J)		<0.0005	
9/23/2020							<0.0005		<0.0005
9/24/2020				0.00055 (J)					
3/1/2021		<0.0005	<0.0005						
3/2/2021					0.00013 (J)		<0.0005	<0.0005	<0.0005
3/3/2021						0.00016 (J)			
3/4/2021				0.00088					
3/12/2021	<0.0005								
9/8/2021			<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0004 (J)	
9/6/2016			
9/7/2016	0.0003 (J)		
12/6/2016			
12/7/2016		0.0004 (J)	
12/8/2016	0.0003 (J)		
3/28/2017			
3/29/2017		0.0004 (J)	
3/30/2017	0.0003 (J)		0.0005 (J)
5/11/2017			0.0004 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.0003 (J)
6/16/2017			
7/11/2017			0.0003 (J)
7/12/2017	0.0002 (J)	0.0004 (J)	
8/8/2017			
10/24/2017			0.0003 (J)
10/25/2017	0.0002 (J)	0.0004 (J)	
11/15/2017			
2/27/2018			<0.0005
2/28/2018	<0.0005	<0.0005	
3/8/2018			
7/11/2018	0.00029 (J)	0.00039 (J)	0.00018 (J)
7/12/2018			
11/6/2018			<0.001 (J)
11/7/2018	<0.0005	<0.001 (J)	
8/27/2019	0.00033 (J)		0.00012 (J)
8/28/2019		0.00033 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00034 (J)	
10/17/2019			0.00013 (J)
10/18/2019	0.00029 (J)		
3/2/2020			
3/3/2020		0.00037 (J)	0.00014 (J)
3/4/2020	0.00028 (J)		
3/9/2020			
8/11/2020		0.0003 (J)	<0.0005
8/12/2020			
8/13/2020			
8/14/2020	0.00029 (J)		
9/22/2020		0.00036 (J)	
9/23/2020			0.00013 (J)
9/24/2020	0.00024 (J)		
3/1/2021			
3/2/2021		0.00035 (J)	<0.0005
3/3/2021	0.00023 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00037 (J)	<0.0005
9/10/2021			
9/13/2021	0.00023 (J)		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		0.00012 (J)		0.00019 (J)					
9/10/2021	0.0012		0.00061		0.0009		0.0014	0.0028	0.00093
9/13/2021						0.00042 (J)			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0019	0.0004 (J)	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0025	0.0005 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0005 (J)	
3/29/2017	0.0024		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0021	0.0005 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0029	0.0006 (J)	
10/25/2017			
10/26/2017			
2/27/2018	0.0029	<0.0005	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.00067 (J)	
7/12/2018			
11/6/2018	0.0027	<0.001 (J)	
11/7/2018			
11/8/2018			
8/27/2019		0.00071 (J)	
8/28/2019	0.0022 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.0022 (J)		
10/17/2019		0.00064 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.002 (J)	0.00059 (J)	
3/4/2020			
8/11/2020		0.00059 (J)	
8/12/2020	0.0021 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.00059 (J)
9/22/2020		0.00059 (J)	
9/23/2020	0.0018 (J)		
9/24/2020			
9/25/2020			0.00027 (J)
3/1/2021			
3/2/2021	0.0017	0.00057	
3/3/2021			
3/8/2021			0.00027 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.00053	
9/13/2021	0.002		0.00029 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.0005		<0.0005	<0.0005		<0.0005	
12/17/2020		0.00067 (J)		0.0002 (J)					
1/11/2021		0.0008 (J)							
1/12/2021	<0.0005		<0.0005					<0.0005	
1/13/2021							<0.0005		
3/3/2021									
3/4/2021		0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005			
3/5/2021	<0.0005							<0.0005	
3/8/2021							<0.0005		
3/12/2021									
4/14/2021									0.00041 (J)
4/15/2021									
9/9/2021									
9/10/2021		0.00083					<0.0005		
9/13/2021	<0.0005			0.00024 (J)	<0.0005				
9/14/2021			<0.0005			<0.0005		<0.0005	0.00035 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.001		
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021	0.0011		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0003 (J)
9/16/2021	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		65.6	
9/6/2016			
9/7/2016	8.61		
12/6/2016			
12/7/2016		68.3	
12/8/2016	7.92		
3/28/2017			
3/29/2017		68	
3/30/2017	9.56		103
5/11/2017			102
5/12/2017			
5/15/2017			
6/15/2017			96.2
6/16/2017			
7/11/2017			98.4
7/12/2017	10.4	70	
8/8/2017			
10/24/2017			86
10/25/2017	10.9	77	
11/15/2017			
2/27/2018			66.7
2/28/2018	<25	72	
3/8/2018			
7/11/2018	13 (J)	82.7	55
7/12/2018			
11/6/2018			54.5
11/7/2018	37	81.7	
3/12/2019			52.2
3/13/2019	11.9 (J)	76.9	
3/14/2019			
10/15/2019			
10/16/2019		85.7	
10/17/2019			47.2
10/18/2019	12.9		
3/2/2020			
3/3/2020		86.8	48.4
3/4/2020	15.8		
3/9/2020			
9/22/2020		103	
9/23/2020			44.4
9/24/2020	12.7		
3/1/2021			
3/2/2021		93.2	44
3/3/2021	14.3		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		93.6	42
9/10/2021			
9/13/2021	15.8		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									82.6
9/1/2016							69.3	95.1	
9/2/2016	96.3	70.2	61.6						
9/7/2016						43.6			
12/6/2016									73.9
12/7/2016	91.9								
12/8/2016		70.1	60.1			45.8	71.1	105	
3/28/2017					229				89.1
3/29/2017	95.7		64.7						
3/30/2017		72.5		68.1				98.6	
3/31/2017						48.3	62.6		
5/12/2017				71.1	233				
6/15/2017				65.9	224				
7/11/2017					249				84.6
7/12/2017	100	80.4		70					
7/13/2017			67.2			52.3	52.5	102	
10/24/2017					232				
10/25/2017	97.3	75.6	66.8			50.9			95.6
10/26/2017				67.2			46.7	94	
2/27/2018					245				108
2/28/2018	86.3	73.2	62.3			45.1			
3/1/2018				66.5			44.2		
3/2/2018								86.6	
7/11/2018	92.4	82.3				47.8			
7/12/2018			71	72			41.6	89.1	
11/6/2018					284				124
11/7/2018	85.9	78.5	60.9			45.5	38.6	88	
11/8/2018				73.5					
3/12/2019					295				110
3/13/2019	86.4	79.9							
3/14/2019			64.8	73.2		43.5	36.6	74.6	
10/15/2019					276				
10/16/2019									109
10/17/2019	86.9	79.8				44.1	36.2		
10/18/2019			61.7	67.7				72.7	
3/2/2020					320				116
3/3/2020		87.4	68.7						
3/4/2020	103			69.8		48.8	36	79.7	
9/22/2020	79.2				263	43.8			99.2
9/23/2020							22.3	72.2	
9/24/2020		80	62.6	73.7					
9/25/2020									
3/1/2021					322				
3/2/2021	74.7								114
3/3/2021		82.1	62.3	68.1		38.8	25.5	66	
3/8/2021									
9/9/2021		75.3		76.4					
9/10/2021	69.8		62.3		285		24.4	68.7	123
9/13/2021						38.9			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	82.7	64.9	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	76.8	59.3	
12/7/2016			
12/8/2016			
3/28/2017		71.6	
3/29/2017	90.5		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	91.1	73.7	
7/12/2017			
7/13/2017			
10/24/2017	78.1	92.5	
10/25/2017			
10/26/2017			
2/27/2018	64.2	73.1	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		88.5	
7/12/2018			
11/6/2018	57	81.1	
11/7/2018			
11/8/2018			
3/12/2019	54.3	78.1	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	47.3		
10/17/2019		75.6	
10/18/2019			
3/2/2020			
3/3/2020	46	59.5	
3/4/2020			
9/22/2020		54.7	
9/23/2020	39.3		
9/24/2020			
9/25/2020			44.7
3/1/2021			
3/2/2021	35.6	48.8	
3/3/2021			
3/8/2021			47.7
9/9/2021			
9/10/2021		47.7	
9/13/2021	36		51.5

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			154		85.4	90.5		105	
12/17/2020		71.5		43.2					
1/11/2021		73							
1/12/2021	56.3		156					103	
1/13/2021							40.3		
3/3/2021									
3/4/2021		79.7	150	42.1	83.9	86.6			
3/5/2021	68.9							110	
3/8/2021							40.2		
3/12/2021									
4/14/2021									52
4/15/2021									
9/9/2021									
9/10/2021		84.7					42.1		
9/13/2021	53.6			42.1	83.6				
9/14/2021			151			83.3		98.4	63

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/14/2021			
4/15/2021	171		
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021	162		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<25								
1/30/2019		62.4							
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	85.9
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	105
9/16/2021	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		41	
9/6/2016			
9/7/2016	17		
12/6/2016			
12/7/2016		41	
12/8/2016	19		
3/28/2017			
3/29/2017		42	
3/30/2017	20		4.8
5/11/2017			4.4
5/12/2017			
5/15/2017			
6/15/2017			4.8
6/16/2017			
7/11/2017			4.6
7/12/2017	18	41	
8/8/2017			
10/24/2017			4.4
10/25/2017	19	41	
11/15/2017			
2/27/2018			4.1
2/28/2018	17	36.4	
3/8/2018			
7/11/2018	19.5	38.2	3.3
7/12/2018			
11/6/2018			3.7
11/7/2018	21.4	38.8	
3/12/2019			3.1
3/13/2019	19.9	40.1	
3/14/2019			
10/15/2019			
10/16/2019		33.2	
10/17/2019			2.8
10/18/2019	22		
3/2/2020			
3/3/2020		30.9	2.3
3/4/2020	19.6		
3/9/2020			
9/22/2020		27.6	
9/23/2020			2.1
9/24/2020	22.7		
3/1/2021			
3/2/2021		27	2.1
3/3/2021	20.9		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		25.4	2.1
9/10/2021			
9/13/2021	18.2		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									8.6
9/1/2016							12	18	
9/2/2016	15	25	30						
9/7/2016						33			
12/6/2016									8
12/7/2016	16								
12/8/2016		24	26			32	12	17	
3/28/2017					29				9.5
3/29/2017	17		30						
3/30/2017		24		17				16	
3/31/2017						33	9.1		
5/12/2017				17	29				
6/15/2017				16	28				
7/11/2017					28				9
7/12/2017	18	23		16					
7/13/2017			29			33	5.7	15	
10/24/2017					28				
10/25/2017	20	23	29			32			9.4
10/26/2017				17			6.6	14	
11/15/2017					27				
2/27/2018					24.6				9.7
2/28/2018	18.6	19.9	23.4			29			
3/1/2018				14.8			10.7		
3/2/2018								12.8	
7/11/2018	20.4	20.9				29.3			
7/12/2018			26.1	15.2			9.5	11.7	
11/6/2018						24.8			10.2
11/7/2018	21.5	20.5	25.8			28.6	8.6	11.4	
11/8/2018				14.6					
3/12/2019						24.2			10.6
3/13/2019	24.8	21.3							
3/14/2019			26.3	15.2		24.8	6.6	10.2	
10/15/2019					20.9				
10/16/2019									11.6
10/17/2019	24.9	20.1				25.8	7		
10/18/2019			23.4	14.4				9.6	
3/2/2020						18.7			10.5
3/3/2020		19.7	21.8						
3/4/2020	27.8			13.9		23.6	4.4	9.1	
9/22/2020	25.8				17	22.1			10.5
9/23/2020							3.3	8	
9/24/2020		20	21.5	13.7					
9/25/2020									
3/1/2021					15				
3/2/2021	28								9.8
3/3/2021		19.7	20.6	14		20.8	2.9	14.2	
3/8/2021									
9/9/2021		20.2		12.3					
9/10/2021	26.2		17.3		13.9		2.4	10.9	9.9
9/13/2021						17.1			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	9.7	6	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	9.8	6.2	
12/7/2016			
12/8/2016			
3/28/2017		6.6	
3/29/2017	9.9		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	9.7	6.9	
7/12/2017			
7/13/2017			
10/24/2017	9.9	6.7	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	9.5	8.2	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		10.5	
7/12/2018			
11/6/2018	10.5	8.7	
11/7/2018			
11/8/2018			
3/12/2019	10.7	8.5	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	10.4		
10/17/2019		10	
10/18/2019			
3/2/2020			
3/3/2020	9.6	6.6	
3/4/2020			
9/22/2020		8	
9/23/2020	9.1		
9/24/2020			
9/25/2020			13.2
3/1/2021			
3/2/2021	8.6	8.4	
3/3/2021			
3/8/2021			12.9
9/9/2021			
9/10/2021		9	
9/13/2021	8.2		11.1

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			7.7		12.5	29.1		12.8	
12/17/2020		10.3		8					
1/11/2021		9.8							
1/12/2021	20.6		7.5					15.7	
1/13/2021							3.1		
3/3/2021									
3/4/2021		10.4	7.9	7.8	13	29.4			
3/5/2021	9							39.2	
3/8/2021							3.9		
3/12/2021									
4/14/2021									7.9
4/15/2021									
9/9/2021									
9/10/2021		10.2					4.8		
9/13/2021	8.7			7	11.7				
9/14/2021			7.9			28.8		27.3	9

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/14/2021			
4/15/2021	6.2		
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021	6.1		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	7.9								
1/30/2019		9.3							
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	96.8
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	29.9
9/16/2021	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.005	<0.005			<0.005	
9/1/2016						<0.005			
9/6/2016							<0.005		<0.005
9/7/2016									
12/6/2016				<0.005	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
12/8/2016									
3/28/2017	<0.005	0.0008 (J)	0.0023 (J)						
3/29/2017				0.0008 (J)	<0.005	<0.005		<0.005	
3/30/2017							0.0009 (J)		0.0005 (J)
5/11/2017	<0.005								
5/12/2017			0.0004 (J)						
5/15/2017		0.0006 (J)							
6/15/2017	<0.005	0.0006 (J)							
6/16/2017			0.0005 (J)						
7/11/2017		0.0005 (J)	<0.005						
7/12/2017	<0.005			0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017		0.0005 (J)							
10/24/2017	<0.005	0.0005 (J)	<0.005	0.0007 (J)	<0.005				
10/25/2017						<0.005		<0.005	<0.005
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		<0.005	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	<0.005	<0.005				
11/7/2018	<0.005					<0.005	<0.005	<0.005	<0.01 (J)
8/27/2019		0.00071 (J)	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005	<0.005	<0.005	
8/28/2019	<0.005						<0.005		<0.005
9/17/2019						<0.005			
10/15/2019		0.034 (O)	0.0025 (J)	0.00078 (J)	<0.005	<0.005			
10/16/2019	<0.005						<0.005	<0.005	
10/17/2019									0.00058 (J)
10/18/2019									
3/2/2020		0.0013 (J)	0.00045 (J)		0.0006 (J)	<0.005			
3/3/2020				0.00092 (J)			0.00066 (J)	<0.005	0.00046 (J)
3/4/2020									
3/9/2020	<0.005								
8/11/2020		0.0016 (J)	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.005	
8/12/2020							0.00074 (J)		
8/13/2020	<0.005								0.0048 (J)
8/14/2020									
9/22/2020	<0.005	0.00089 (J)	<0.005		0.00058 (J)	<0.005		<0.005	
9/23/2020							0.00059 (J)		<0.005
9/24/2020				0.001 (J)					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		<0.005	<0.005	<0.005
3/3/2021						0.00099 (J)			
3/4/2021				0.0009 (J)					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0031 (J)	
9/6/2016			
9/7/2016	0.0026 (J)		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	0.0025 (J)		
3/28/2017			
3/29/2017		0.0025 (J)	
3/30/2017	0.0026 (J)		0.0005 (J)
5/11/2017			0.0005 (J)
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	0.0022 (J)	0.0023 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0024 (J)	0.0024 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	<0.005	<0.005	
3/8/2018			
7/11/2018	0.0024 (J)	0.0022 (J)	<0.005
7/12/2018			
11/6/2018			<0.005
11/7/2018	<0.005	<0.01 (J)	
8/27/2019	0.0031 (J)		0.0004 (J)
8/28/2019		0.0028 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0024 (J)	
10/17/2019			0.00046 (J)
10/18/2019	0.0027 (J)		
3/2/2020			
3/3/2020		0.0028 (J)	<0.005
3/4/2020	0.0035 (J)		
3/9/2020			
8/11/2020		0.0024 (J)	0.00067 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0033 (J)		
9/22/2020		0.003 (J)	
9/23/2020			<0.005
9/24/2020	0.0029 (J)		
3/1/2021			
3/2/2021		0.0024 (J)	0.00064 (J)
3/3/2021	0.0028 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.003 (J)	<0.005
9/10/2021			
9/13/2021	0.0027 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		<0.005		<0.005					
9/10/2021	<0.005		<0.005		<0.005		<0.005	<0.005	<0.005
9/13/2021						<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.005	<0.005	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.005	<0.005	
12/7/2016			
12/8/2016			
3/28/2017		0.001 (J)	
3/29/2017	0.0004 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.005	<0.005	
7/12/2017			
7/13/2017			
10/24/2017	<0.005	<0.005	
10/25/2017			
10/26/2017			
2/27/2018	<0.005	<0.005	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.005	
7/12/2018			
11/6/2018	<0.005	<0.005	
11/7/2018			
11/8/2018			
8/27/2019		0.00048 (J)	
8/28/2019	<0.005		
8/29/2019			
10/15/2019			
10/16/2019	0.0013 (J)		
10/17/2019		0.00051 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.00061 (J)	0.0057 (J)	
3/4/2020			
8/11/2020		0.00061 (J)	
8/12/2020	0.0028 (J)		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		<0.005	
9/23/2020	0.00086 (J)		
9/24/2020			
9/25/2020			0.00094 (J)
3/1/2021			
3/2/2021	0.0015 (J)	0.00059 (J)	
3/3/2021			
3/8/2021			0.00057 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.005	
9/13/2021	<0.005		<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0011 (J)		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	<0.005	<0.005	<0.005	<0.005			
3/5/2021	<0.005							<0.005	
3/8/2021							0.00061 (J)		
3/12/2021									
4/14/2021									<0.005
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	0.0014 (J)			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021	<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019
1/30/2019
9/11/2019
9/12/2019
9/18/2019
9/23/2019
10/21/2019
10/22/2019
10/24/2019
8/13/2020
8/14/2020
8/17/2020
8/19/2020
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.193	<0.005			<0.005	
9/1/2016						0.0021 (J)			
9/6/2016							<0.005		0.0042 (J)
9/7/2016									
12/6/2016				0.2	0.0006 (J)			<0.005	
12/7/2016						0.0026 (J)	<0.005		0.0028 (J)
12/8/2016									
3/28/2017	0.025	0.0034 (J)	0.0033 (J)						
3/29/2017				0.184	<0.005	0.0026 (J)		<0.005	
3/30/2017							0.0005 (J)		0.0024 (J)
5/11/2017	0.0281								
5/12/2017			0.0016 (J)						
5/15/2017		0.0024 (J)							
6/15/2017	0.0322	0.0014 (J)							
6/16/2017			0.0011 (J)						
7/11/2017		0.0007 (J)	0.0008 (J)						
7/12/2017	0.0247			0.177	<0.005	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)
8/8/2017		0.0007 (J)							
10/24/2017	0.0267	<0.005	0.0004 (J)	0.175	<0.005				
10/25/2017						0.0021 (J)		<0.005	0.0019 (J)
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	0.2	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	0.027								
7/11/2018						0.002 (J)		<0.005	0.0018 (J)
7/12/2018	0.024								
11/6/2018		<0.005	<0.005	0.2	<0.005				
11/7/2018	0.018					<0.01 (J)	<0.005	<0.005	0.025
8/27/2019		<0.005	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005	
8/28/2019	0.013						<0.005		0.0015 (J)
9/17/2019						0.0079			
10/15/2019		0.00064 (J)	<0.005	0.17	0.0006 (J)	0.0058			
10/16/2019	0.009						<0.005	<0.005	
10/17/2019									0.0018 (J)
10/18/2019									
3/2/2020		0.00037 (J)	<0.005		0.00078 (J)	0.029			
3/3/2020				0.18			<0.005	<0.005	0.0018 (J)
3/4/2020									
3/9/2020	0.016								
8/11/2020		0.0012 (J)	<0.005	0.11	0.00055 (J)	0.006		<0.005	
8/12/2020							<0.005		
8/13/2020	0.0051								0.0024 (J)
8/14/2020									
9/22/2020	0.011	<0.005	<0.005		0.00098 (J)	0.013		<0.005	
9/23/2020							0.00038 (J)		0.0018 (J)
9/24/2020				0.086					
3/1/2021		<0.005	<0.005						
3/2/2021					0.00065 (J)		<0.005	<0.005	0.0013 (J)
3/3/2021						0.01			
3/4/2021				0.071					
3/12/2021	0.0078								
9/8/2021			<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0553	
9/6/2016			
9/7/2016	0.0247		
12/6/2016			
12/7/2016		0.0561	
12/8/2016	0.029		
3/28/2017			
3/29/2017		0.0534	
3/30/2017	0.0283		0.0255
5/11/2017			0.0284
5/12/2017			
5/15/2017			
6/15/2017			0.0238
6/16/2017			
7/11/2017			0.0238
7/12/2017	0.023	0.0489	
8/8/2017			
10/24/2017			0.0292
10/25/2017	0.0259	0.0514	
11/15/2017			
2/27/2018			0.042
2/28/2018	0.02	0.0511	
3/8/2018			
7/11/2018	0.025	0.051	0.02
7/12/2018			
11/6/2018			0.024
11/7/2018	<0.01 (J)	0.048	
8/27/2019	0.031		0.0088
8/28/2019		0.048	
9/17/2019			
10/15/2019			
10/16/2019		0.046	
10/17/2019			0.0084
10/18/2019	0.023		
3/2/2020			
3/3/2020		0.054	0.0073
3/4/2020	0.023		
3/9/2020			
8/11/2020		0.049	0.0064
8/12/2020			
8/13/2020			
8/14/2020	0.026		
9/22/2020		0.051	
9/23/2020			0.0062
9/24/2020	0.028		
3/1/2021			
3/2/2021		0.051	0.0055
3/3/2021	0.016		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.055	0.0048 (J)
9/10/2021			
9/13/2021	0.019		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/3/2021		0.0087	0.0078	0.00039 (J)		0.0087	0.2	0.36	
3/8/2021									
9/9/2021		0.0096		0.00049 (J)					
9/10/2021	0.45		0.0076		0.0019 (J)		0.23	0.36	0.022
9/13/2021						0.008			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0568	0.0896	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0873	0.122	
12/7/2016			
12/8/2016			
3/28/2017		0.124	
3/29/2017	0.0902		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0601	0.136	
7/12/2017			
7/13/2017			
10/24/2017	0.123	0.151	
10/25/2017			
10/26/2017			
2/27/2018	0.126	0.163	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.18	
7/12/2018			
11/6/2018	0.077	0.2	
11/7/2018			
11/8/2018			
8/27/2019		0.24	
8/28/2019	0.051		
8/29/2019			
10/15/2019			
10/16/2019	0.054		
10/17/2019		0.21	
10/18/2019			
3/2/2020			
3/3/2020	0.044	0.2	
3/4/2020			
7/23/2020			0.086
8/3/2020			0.087
8/11/2020		0.22	
8/12/2020	0.053		
8/13/2020			
8/14/2020			
8/17/2020			0.077
9/22/2020		0.16	
9/23/2020	0.04		
9/24/2020			
9/25/2020			0.034
3/1/2021			
3/2/2021	0.033	0.18	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/3/2021			
3/8/2021			0.029
9/9/2021			
9/10/2021		0.21	
9/13/2021	0.028		0.035

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.17		0.0017 (J)	0.0048 (J)		0.00076 (J)	
12/17/2020		0.014		0.00087 (J)					
1/11/2021		0.015							
1/12/2021	0.0034 (J)		0.19					0.0007 (J)	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		0.014	0.19	0.0007 (J)	0.0012 (J)	0.0017 (J)			
3/5/2021	0.0023 (J)							0.00052 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.3
4/15/2021									
9/9/2021									
9/10/2021		0.013					<0.005		
9/13/2021	0.003 (J)			0.00056 (J)	0.00083 (J)				
9/14/2021			0.1			0.0017 (J)		<0.005	0.28

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.017		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021	0.0055		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.053								
1/30/2019		<0.005							
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/19/2019	
2/17/2020	<0.005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	<0.005
9/13/2021	
9/14/2021	
9/15/2021	0.0048 (J)
9/16/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				1.08	1.09			0.997 (U)	
9/1/2016						1.11			
9/6/2016							1.32		0.731 (U)
9/7/2016									
12/6/2016				1.31	0.409 (U)			0.659 (U)	
12/7/2016						2.66	1.76		1.73
12/8/2016									
3/28/2017	6.36	0.866 (U)	0.257 (U)						
3/29/2017				1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017							1.59		0.276 (U)
5/11/2017	3.45								
5/12/2017			0.165 (U)						
5/15/2017		0.288 (U)							
6/15/2017	4.58	1.01 (U)							
6/16/2017			0.732 (U)						
7/11/2017		0.254 (U)	0.461 (U)						
7/12/2017	4.37			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
8/8/2017		1.48							
10/24/2017	4.46	0.472 (U)	0.724 (U)	0.838 (U)	0.98 (U)				
10/25/2017						0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017							1.08 (U)		
2/27/2018		1.22	0.714 (U)	1.55	1.14	0.83		0.695 (U)	
2/28/2018							0.721 (U)		1.25
3/8/2018	2.14								
7/10/2018		0.362 (U)	0.426 (U)	1.65	0.495 (U)		0.746 (U)		
7/11/2018						0.728 (U)		1.04 (U)	2.13
7/12/2018	4.65								
11/6/2018		0.859 (U)	0.455 (U)	1.46	1.41				
11/7/2018	3.05					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019		1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019	2.68						1.43		1.01 (U)
10/15/2019		0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019	1.89						1.73	1.04 (U)	
10/17/2019									1.03 (U)
10/18/2019									
3/2/2020		0.419 (U)	1.3		1.3	1.2 (U)			
3/3/2020				1.69			1.03	1.44	0.293 (U)
3/4/2020									
3/9/2020	3.51								
8/11/2020		0.812 (U)	0.965 (U)	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020							1.63		
8/13/2020	1.04								3.58
8/14/2020									
9/22/2020	2.27	0.45 (U)	0.216 (U)		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020							0.935 (U)		1.69 (U)
9/24/2020				1.39					
3/1/2021		0.552 (U)	0.389 (U)						
3/2/2021					0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021						1.85			
3/4/2021				1.48					
3/12/2021	1.63								
9/8/2021			0.051 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		1.07 (U)	
9/6/2016			
9/7/2016	1.17		
12/6/2016			
12/7/2016		0.903 (U)	
12/8/2016	1.65		
3/28/2017			
3/29/2017		0.302 (U)	
3/30/2017	0.865 (U)		0.737 (U)
5/11/2017			0.892 (U)
5/12/2017			
5/15/2017			
6/15/2017			0.979 (U)
6/16/2017			
7/11/2017			0.871 (U)
7/12/2017	0.362 (U)	0.283 (U)	
8/8/2017			
10/24/2017			1.19
10/25/2017	0.401 (U)	0.927 (U)	
11/15/2017			
2/27/2018			0.863 (U)
2/28/2018	1.1 (U)	0.813 (U)	
3/8/2018			
7/10/2018			
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)
7/12/2018			
11/6/2018			0.664
11/7/2018	0.795 (U)	1.02	
8/27/2019	1.12		1.6
8/28/2019		0.661 (U)	
10/15/2019			
10/16/2019		1.79	
10/17/2019			1.74
10/18/2019	0.89 (U)		
3/2/2020			
3/3/2020		0.383 (U)	1.23
3/4/2020	0.493 (U)		
3/9/2020			
8/11/2020		0.723 (U)	1.37
8/12/2020			
8/13/2020			
8/14/2020	0.804 (U)		
9/22/2020		0.96 (U)	
9/23/2020			1.96 (U)
9/24/2020	0.369 (U)		
3/1/2021			
3/2/2021		0.775 (U)	1.54 (U)
3/3/2021	0.66 (U)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.239 (U)	1.22 (U)
9/10/2021			
9/13/2021	0.85 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									2.49
9/1/2016							4.47	2.37	
9/2/2016	1.48	0.908 (U)	1.54						
9/7/2016						0.876 (U)			
12/6/2016									0.348 (U)
12/7/2016	1.26 (U)								
12/8/2016		1.03 (U)	0.505 (U)			0.955	2.88	2.87	
3/28/2017					1.36				0.693 (U)
3/29/2017	0.373 (U)		0.715 (U)						
3/30/2017		0.884 (U)		0.297 (U)				1.71	
3/31/2017						0.102 (U)	1.14		
5/12/2017				0.693 (U)	1.15				
6/15/2017				0.435 (U)	0.765 (U)				
7/11/2017					1.13				1.38
7/12/2017	0.91 (U)	1.22		0.703 (U)					
7/13/2017			1.14			1.08 (U)	2.37	1.78	
10/24/2017					1.24				
10/25/2017	0.853 (U)	1.07 (U)	1.6			1.46			2.06
10/26/2017				0.984 (U)			2.88	3.74	
2/27/2018					1.82				1.97
2/28/2018	0.727 (U)	1.45	0.918 (U)			0.882 (U)			
3/1/2018				0.743 (U)			2.21		
3/2/2018								2.26	
7/10/2018					1.37				1.03 (U)
7/11/2018	1.3	1.59				0.924 (U)			
7/12/2018			0.981 (U)	0.918 (U)			1.73	1.81	
11/6/2018					1.2				1.13
11/7/2018	0.746 (U)	1.16	0.832 (U)			0.654 (U)	1.72	1.94	
11/8/2018				1.47					
8/27/2019					1.79				1.81
8/28/2019						0.883 (U)			
8/29/2019	0.996 (U)	0.582 (U)	1.87	2.21			3.05	2.37	
10/15/2019					2.11 (U)				
10/16/2019									1.63
10/17/2019	2	0.427 (U)				1.38	2.58		
10/18/2019			1.1 (U)	1.32				1.42	
3/2/2020					1.99				2.28
3/3/2020		0.567 (U)	0.517 (U)						
3/4/2020	1.67			1.39		0.722 (U)	1.68	1.31	
8/11/2020									
8/12/2020					1.95		2.56		1.13
8/13/2020	1.77			1.48 (U)		1.23 (U)		1.74	
8/14/2020		0.602 (U)	1.83						
8/17/2020									
9/22/2020	1.61 (U)				1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020							2.3 (U)	1.51 (U)	
9/24/2020		0.396 (U)	1.02 (U)	1.49					
9/25/2020									
3/1/2021					1.05 (U)				
3/2/2021	1.76								0.971 (U)
3/3/2021		0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/8/2021									
9/9/2021		0.702 (U)		1.81					
9/10/2021	0.689 (U)		0.616 (U)		1.46		2.32	2.21	1.15
9/13/2021						1.15 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.919 (U)	1.33	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.407 (U)	0.828 (U)	
12/7/2016			
12/8/2016			
3/28/2017		1.06	
3/29/2017	0.28 (U)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.209 (U)	0.62 (U)	
7/12/2017			
7/13/2017			
10/24/2017	0.615 (U)	1.21	
10/25/2017			
10/26/2017			
2/27/2018	1.05 (U)	1.79	
2/28/2018			
3/1/2018			
3/2/2018			
7/10/2018	0.363 (U)		
7/11/2018		1.81	
7/12/2018			
11/6/2018	0.577 (U)	1.13	
11/7/2018			
11/8/2018			
8/27/2019		1.55	
8/28/2019	0.815 (U)		
8/29/2019			
10/15/2019			
10/16/2019	0.999 (U)		
10/17/2019		0.702 (U)	
10/18/2019			
3/2/2020			
3/3/2020	0.481 (U)	1.37	
3/4/2020			
8/11/2020		0.819 (U)	
8/12/2020	0.721 (U)		
8/13/2020			
8/14/2020			
8/17/2020			1.4 (U)
9/22/2020		1.15 (U)	
9/23/2020	0.8 (U)		
9/24/2020			
9/25/2020			0.799 (U)
3/1/2021			
3/2/2021	0.751 (U)	1.29 (U)	
3/3/2021			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/8/2021			0.168 (U)
9/9/2021			
9/10/2021		1.28	
9/13/2021	0.916 (U)		0.774 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			15.2		1.49	1.31 (U)		12.3	
12/17/2020		1.22 (U)		0.952 (U)					
1/11/2021		0.635 (U)							
1/12/2021	1.91		17					9.63	
1/13/2021							11.8		
3/3/2021									
3/4/2021		0.789 (U)	14.5	0.681 (U)	2.14	2.02			
3/5/2021	2.17							9.05	
3/8/2021							12.1		
3/12/2021									
4/14/2021									14.7
4/15/2021									
9/9/2021									
9/10/2021		1.74					9.45		
9/13/2021	1.8			0.625 (U)	0.813 (U)				
9/14/2021			9.6			0.917 (U)		4.39	11.9

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			1.97 (U)
10/21/2019			1.82
8/13/2020			1.63
8/17/2020		1.15 (U)	
9/24/2020			1.28 (U)
9/28/2020		1.39	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		1.01 (U)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			1.18 (U)
4/14/2021			
4/15/2021	2.31		
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021	3.68		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/24/2020			0.761 (U)						
9/25/2020					0.0359 (U)	0.925 (U)			
9/28/2020				0.747 (U)				1.54	
3/4/2021			2.16		1.15 (U)				
3/5/2021						2.84			
3/9/2021								0.786 (U)	
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019
1/30/2019
10/21/2019
10/22/2019
10/24/2019
8/13/2020
8/14/2020
8/17/2020
8/19/2020
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

2.2

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				1	0.06 (J)			0.06 (J)	
9/1/2016						0.02 (J)			
9/6/2016							0.17 (J)		0.11 (J)
9/7/2016									
12/6/2016				1.3	0.06 (J)			0.1 (J)	
12/7/2016						0.16 (J)	0.3		0.11 (J)
12/8/2016									
3/28/2017	0.12 (J)	1.2 (O)	0.06 (J)						
3/29/2017				1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017							0.12 (J)		<0.1
5/11/2017	0.07 (J)								
5/12/2017			<0.1						
5/15/2017		0.005 (J)							
6/15/2017	0.19 (J)	0.02 (J)							
6/16/2017			0.008 (J)						
7/11/2017		0.06 (J)	0.007 (J)						
7/12/2017	0.1 (J)			1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
8/8/2017		0.04 (J)							
10/24/2017	0.06 (J)	<0.1	<0.1	2.1	<0.1				
10/25/2017						0.6		<0.1	0.26 (J)
11/15/2017	0.05 (J)		<0.1	1.4			0.44		
2/27/2018		<0.1	<0.1	2.3	<0.1	0.34		<0.1	
2/28/2018							0.18		<0.1
3/8/2018	<0.1								
7/11/2018						<0.1		<0.1	<0.1
7/12/2018	0.071 (J)								
11/6/2018		<0.1	<0.1	2	<0.1				
11/7/2018	<0.1					<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019		0.039 (J)	<0.1	1.7	0.052 (J)	0.065 (J)			
3/13/2019	0.13 (J)						0.13 (J)	0.042 (J)	
3/14/2019									0.057 (J)
8/27/2019		<0.1	<0.1	1.4	<0.1	<0.1		<0.1	
8/28/2019	0.42						0.091 (J)		<0.1
10/15/2019		<0.1	<0.1	1.4	<0.1	<0.1			
10/16/2019	0.11 (J)						0.14 (J)	0.052 (J)	
10/17/2019									0.079 (J)
10/18/2019									
3/2/2020		<0.1	<0.1		0.064 (J)	0.071 (J)			
3/3/2020				1.5			0.078 (J)	<0.1	<0.1
3/4/2020									
3/9/2020	0.1 (J)								
8/11/2020		<0.1	<0.1	1.4	<0.1	<0.1		<0.1	
8/12/2020							0.051 (J)		
8/13/2020	0.062 (J)								<0.1
8/14/2020									
9/22/2020	0.099 (J)	<0.1	<0.1		<0.1	<0.1		<0.1	
9/23/2020							0.058 (J)		<0.1
9/24/2020				0.97					
3/1/2021		<0.1	<0.1						
3/2/2021					<0.1		0.084 (J)	<0.1	<0.1
3/3/2021						0.085 (J)			
3/4/2021				1.8					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.75	
9/6/2016			
9/7/2016	0.32		
12/6/2016			
12/7/2016		0.37	
12/8/2016	0.31		
3/28/2017			
3/29/2017		0.35	
3/30/2017	0.1 (J)		0.06 (J)
5/11/2017			0.06 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.07 (J)
6/16/2017			
7/11/2017			0.04 (J)
7/12/2017	0.27 (J)	0.34	
8/8/2017			
10/24/2017			0.43
10/25/2017	0.49	0.9	
11/15/2017			
2/27/2018			0.28
2/28/2018	0.54	1.2	
3/8/2018			
7/11/2018	0.15 (J)	0.37	0.6
7/12/2018			
11/6/2018			<0.1
11/7/2018	<0.3 (J)	<0.3 (J)	
3/12/2019			0.052 (J)
3/13/2019	0.084 (J)	0.22 (J)	
3/14/2019			
8/27/2019	0.24 (J)		<0.1
8/28/2019		0.2	
10/15/2019			
10/16/2019		0.23 (J)	
10/17/2019			0.042 (J)
10/18/2019	0.086 (J)		
3/2/2020			
3/3/2020		0.056 (J)	<0.1
3/4/2020	<0.1		
3/9/2020			
8/11/2020		0.2	<0.1
8/12/2020			
8/13/2020			
8/14/2020	0.069 (J)		
9/22/2020		0.084 (J)	
9/23/2020			<0.1
9/24/2020	0.056 (J)		
3/1/2021			
3/2/2021		0.19	<0.1
3/3/2021	0.085 (J)		
3/4/2021			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/12/2021			
9/8/2021			
9/9/2021		0.18	0.053 (J)
9/10/2021			
9/13/2021	0.063 (J)		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/1/2021					<0.1				
3/2/2021	1.4								0.15
3/3/2021		<0.1	<0.1	0.063 (J)		<0.1	0.71	0.67	
3/8/2021									
9/9/2021		<0.1		0.084 (J)					
9/10/2021	0.25		<0.1		<0.1		0.22	0.47	0.16
9/13/2021						<0.1			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.39	0.78	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.47	1.1	
12/7/2016			
12/8/2016			
3/28/2017		1.1	
3/29/2017	0.51		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.2 (J)	1.1	
7/12/2017			
7/13/2017			
10/24/2017	0.82	1.7	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	0.59	1.2	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		1.3	
7/12/2018			
11/6/2018	0.35	1.1	
11/7/2018			
11/8/2018			
3/12/2019	0.35	0.97	
3/13/2019			
3/14/2019			
8/27/2019		0.68	
8/28/2019	0.098 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.14 (J)		
10/17/2019		1.2	
10/18/2019			
3/2/2020			
3/3/2020	<0.1	1.4	
3/4/2020			
8/11/2020		1.3	
8/12/2020	0.056 (J)		
8/13/2020			
8/14/2020			
8/17/2020			<0.1
9/22/2020		0.99	
9/23/2020	<0.1		
9/24/2020			
9/25/2020			<0.1

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/1/2021			
3/2/2021	0.059 (J)	0.93	
3/3/2021			
3/8/2021			<0.1
9/9/2021			
9/10/2021		2	
9/13/2021	0.069 (J)		<0.1

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.33		<0.1	<0.1		0.33	
12/17/2020		0.079 (J)		0.052 (J)					
1/11/2021		0.077 (J)							
1/12/2021	0.052 (J)		0.36					0.32	
1/13/2021							0.17		
3/3/2021									
3/4/2021		0.11	0.43	0.055 (J)	<0.1	<0.1			
3/5/2021	0.053 (J)							0.51	
3/8/2021							0.14		
3/12/2021									
4/14/2021									0.99
4/15/2021									
9/9/2021									
9/10/2021		0.083 (J)					0.15		
9/13/2021	0.051 (J)			0.052 (J)	<0.1				
9/14/2021			0.5			<0.1		0.57	1

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			0.43
10/21/2019			0.23 (J)
8/13/2020			0.11
8/17/2020		0.19	
9/24/2020			0.093 (J)
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/14/2021			
4/15/2021	<0.1		
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021	<0.1		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.45								
1/30/2019		0.51							
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
8/13/2020			<0.1						
8/14/2020					0.05 (J)				
8/17/2020				<0.1		<0.1			
8/19/2020								0.32	
9/24/2020			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.098 (J)
9/16/2021	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.001	<0.001			<0.001	
9/1/2016						<0.001			
9/6/2016							<0.001		<0.001
9/7/2016									
12/6/2016				<0.001	<0.001			<0.001	
12/7/2016						<0.001	<0.001		0.0002 (J)
12/8/2016									
3/28/2017	<0.001	9E-05 (J)	<0.001						
3/29/2017				<0.001	<0.001	<0.001		<0.001	
3/30/2017							0.0002 (J)		0.0001 (J)
5/11/2017	<0.001								
5/12/2017			8E-05 (J)						
5/15/2017		0.0001 (J)							
6/15/2017	<0.001	0.0002 (J)							
6/16/2017			<0.001						
7/11/2017		<0.001	<0.001						
7/12/2017	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
8/8/2017		7E-05 (J)							
10/24/2017	<0.001	<0.001	<0.001	<0.001	<0.001				
10/25/2017						<0.001		<0.001	<0.001
11/15/2017							<0.001		
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/28/2018							<0.001		<0.001
3/8/2018	<0.001								
7/11/2018						<0.001		<0.001	<0.001
7/12/2018	<0.001								
11/6/2018		<0.001	<0.001	<0.001	<0.001				
11/7/2018	<0.001					<0.001	<0.001	<0.001	<0.001
8/27/2019		7.8E-05 (J)	<0.001	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019	<0.001						<0.001		5.9E-05 (J)
9/17/2019						<0.001			
10/15/2019		<0.001	<0.001	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019	<0.001						<0.001	<0.001	
10/17/2019									<0.001
10/18/2019									
3/2/2020		7.4E-05 (J)	<0.001		0.00015 (J)	<0.001			
3/3/2020				0.00011 (J)			<0.001	<0.001	<0.001
3/4/2020									
3/9/2020	<0.001								
8/11/2020		0.0003 (J)	<0.001	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020							<0.001		
8/13/2020	<0.001								0.0012 (J)
8/14/2020									
9/22/2020	<0.001	7.8E-05 (J)	<0.001		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020							9.8E-05 (J)		8.2E-05 (J)
9/24/2020				0.00013 (J)					
3/1/2021		<0.001	<0.001						
3/2/2021					<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021						<0.001			
3/4/2021				9.2E-05 (J)					
3/12/2021	<0.001								
9/8/2021			<0.001						

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	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.001	
9/6/2016			
9/7/2016	<0.001		
12/6/2016			
12/7/2016		<0.001	
12/8/2016	<0.001		
3/28/2017			
3/29/2017		<0.001	
3/30/2017	0.0001 (J)		0.0001 (J)
5/11/2017			9E-05 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.0001 (J)
6/16/2017			
7/11/2017			<0.001
7/12/2017	<0.001	<0.001	
8/8/2017			
10/24/2017			<0.001
10/25/2017	<0.001	<0.001	
11/15/2017			
2/27/2018			<0.001
2/28/2018	<0.001	<0.001	
3/8/2018			
7/11/2018	<0.001	<0.001	<0.001
7/12/2018			
11/6/2018			<0.001
11/7/2018	<0.001	<0.001	
8/27/2019	9E-05 (J)		6E-05 (J)
8/28/2019		0.00026 (J)	
9/17/2019			
10/15/2019			
10/16/2019		<0.001	
10/17/2019			8.6E-05 (J)
10/18/2019	7.4E-05 (J)		
3/2/2020			
3/3/2020		7E-05 (J)	<0.001
3/4/2020	0.00013 (J)		
3/9/2020			
8/11/2020		5.3E-05 (J)	6.4E-05 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.00017 (J)		
9/22/2020		0.00016 (J)	
9/23/2020			9.4E-05 (J)
9/24/2020	7.9E-05 (J)		
3/1/2021			
3/2/2021		4.5E-05 (J)	0.00014 (J)
3/3/2021	0.00015 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

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Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.001	<0.001
9/10/2021			
9/13/2021	<0.001		

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Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		<0.001		<0.001					
9/10/2021	<0.001		<0.001		<0.001		<0.001	0.00099 (J)	<0.001
9/13/2021						<0.001			

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Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.001	<0.001	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.001	<0.001	
12/7/2016			
12/8/2016			
3/28/2017		<0.001	
3/29/2017	0.0001 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.001	<0.001	
7/12/2017			
7/13/2017			
10/24/2017	<0.001	<0.001	
10/25/2017			
10/26/2017			
2/27/2018	<0.001	<0.001	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.001	
7/12/2018			
11/6/2018	<0.001	<0.001	
11/7/2018			
11/8/2018			
8/27/2019		<0.001	
8/28/2019	8.2E-05 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.00029 (J)		
10/17/2019		<0.001	
10/18/2019			
3/2/2020			
3/3/2020	0.00023 (J)	0.00017 (J)	
3/4/2020			
8/11/2020		<0.001	
8/12/2020	0.0007 (J)		
8/13/2020			
8/14/2020			
8/17/2020			8.8E-05 (J)
9/22/2020		0.00015 (J)	
9/23/2020	0.00011 (J)		
9/24/2020			
9/25/2020			0.00021 (J)
3/1/2021			
3/2/2021	0.00027 (J)	0.00028 (J)	
3/3/2021			
3/8/2021			0.00018 (J)

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Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.001	
9/13/2021	<0.001		<0.001

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Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			5.1E-05 (J)		4.4E-05 (J)	<0.001		5.8E-05 (J)	
12/17/2020		3.7E-05 (J)		<0.001					
1/11/2021		5E-05 (J)							
1/12/2021	<0.001		<0.001					5.1E-05 (J)	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001			
3/5/2021	6.5E-05 (J)							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									0.00032 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001

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Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	0.00019 (J)		
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021	<0.001		

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Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				

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B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.001
9/16/2021	

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Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016						<0.03			
9/6/2016							0.0029 (J)		0.0064 (J)
9/7/2016									
12/6/2016				<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016						<0.03	0.003 (J)		0.0066 (J)
12/8/2016									
3/28/2017	0.0108 (J)	0.0054 (J)	0.0025 (J)						
3/29/2017				0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017							0.0035 (J)		0.0061 (J)
5/11/2017	0.0087 (J)								
5/12/2017			0.0016 (J)						
5/15/2017		0.002 (J)							
6/15/2017	0.0088 (J)	<0.03							
6/16/2017			0.0016 (J)						
7/11/2017		<0.03	<0.03						
7/12/2017	0.0075 (J)			0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
8/8/2017		<0.03							
10/24/2017	0.0103 (J)	<0.03	<0.03	0.0022 (J)	0.0024 (J)				
10/25/2017						<0.03		0.0032 (J)	0.0061 (J)
11/15/2017							0.0028 (J)		
2/27/2018		<0.03	0.0013 (J)	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018							<0.03		0.0062 (J)
3/8/2018	0.011 (J)								
7/11/2018						<0.03		0.0034 (J)	0.0058 (J)
7/12/2018	0.0084 (J)								
11/6/2018		<0.03	<0.03	<0.03	<0.03				
11/7/2018	<0.03					<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019		<0.03	0.0014 (J)	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019	0.0092 (J)						0.0033 (J)		0.0063 (J)
9/17/2019						0.0011 (J)			
10/15/2019		<0.03	0.0012 (J)	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019	0.0094 (J)						0.0029 (J)	0.0032 (J)	
10/17/2019									0.0064 (J)
10/18/2019									
3/2/2020		<0.03	0.0011 (J)		0.0023 (J)	<0.03			
3/3/2020				0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
3/4/2020									
3/9/2020	0.0077 (J)								
8/11/2020		0.0019 (J)	0.0015 (J)	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020							0.0034 (J)		
8/13/2020	0.0085 (J)								0.0089 (J)
8/14/2020									
9/22/2020	0.0089 (J)	<0.03	0.0012 (J)		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020							0.0033 (J)		0.006 (J)
9/24/2020				0.0049 (J)					
3/1/2021		<0.03	0.0012 (J)						
3/2/2021					0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021						<0.03			
3/4/2021				0.0042 (J)					
3/12/2021	0.0083 (J)								
9/8/2021			0.0013 (J)						

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 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0034 (J)	
9/6/2016			
9/7/2016	<0.03		
12/6/2016			
12/7/2016		0.0034 (J)	
12/8/2016	<0.03		
3/28/2017			
3/29/2017		0.0031 (J)	
3/30/2017	<0.03		0.0807
5/11/2017			0.085
5/12/2017			
5/15/2017			
6/15/2017			0.0781
6/16/2017			
7/11/2017			0.0731
7/12/2017	<0.03	0.0032 (J)	
8/8/2017			
10/24/2017			0.0995
10/25/2017	<0.03	0.0031 (J)	
11/15/2017			
2/27/2018			0.0875
2/28/2018	<0.03	0.0031 (J)	
3/8/2018			
7/11/2018	<0.03	0.0034 (J)	0.033 (J)
7/12/2018			
11/6/2018			<0.03
11/7/2018	<0.03	<0.03	
8/27/2019	0.00089 (J)		0.032
8/28/2019		0.0032 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0026 (J)	
10/17/2019			0.029 (J)
10/18/2019	0.00096 (J)		
3/2/2020			
3/3/2020		0.0034 (J)	0.026 (J)
3/4/2020	0.0011 (J)		
3/9/2020			
8/11/2020		0.0031 (J)	0.028 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0015 (J)		
9/22/2020		0.0034 (J)	
9/23/2020			0.022 (J)
9/24/2020	0.00096 (J)		
3/1/2021			
3/2/2021		0.003 (J)	0.023 (J)
3/3/2021	0.0011 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0035 (J)	0.024 (J)
9/10/2021			
9/13/2021	<0.03		

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Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		0.006 (J)		0.0081 (J)					
9/10/2021	0.0023 (J)		0.0039 (J)		0.0035 (J)		0.053	0.095	0.0071 (J)
9/13/2021						0.015 (J)			

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Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.005 (J)	0.0212 (J)	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0066 (J)	0.0242 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0249 (J)	
3/29/2017	0.0059 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0045 (J)	0.022 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0072 (J)	0.0281 (J)	
10/25/2017			
10/26/2017			
2/27/2018	0.0075 (J)	0.031 (J)	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.028 (J)	
7/12/2018			
11/6/2018	<0.03	<0.03	
11/7/2018			
11/8/2018			
8/27/2019		0.031	
8/28/2019	0.0048 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.0045 (J)		
10/17/2019		0.029 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.0052 (J)	0.028 (J)	
3/4/2020			
8/11/2020		0.032	
8/12/2020	0.0058 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.0013 (J)
9/22/2020		0.025 (J)	
9/23/2020	0.0045 (J)		
9/24/2020			
9/25/2020			0.0027 (J)
3/1/2021			
3/2/2021	0.0046 (J)	0.028 (J)	
3/3/2021			
3/8/2021			0.0024 (J)

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Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.027 (J)	
9/13/2021	0.0034 (J)		0.0022 (J)

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Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.039 (J)		0.017 (J)	0.016 (J)		0.021 (J)	
12/17/2020		0.012 (J)		0.0048 (J)					
1/11/2021		0.015 (J)							
1/12/2021	0.012 (J)		0.039					0.021 (J)	
1/13/2021							0.016 (J)		
3/3/2021									
3/4/2021		0.014 (J)	0.038	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021	0.015 (J)							0.028 (J)	
3/8/2021							0.014 (J)		
3/12/2021									
4/14/2021									0.089
4/15/2021									
9/9/2021									
9/10/2021		0.012 (J)					0.013 (J)		
9/13/2021	0.011 (J)			0.0056 (J)	0.014 (J)				
9/14/2021			0.036			0.015 (J)		0.029 (J)	0.085

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.03
9/11/2019			0.0078 (J)
10/21/2019			0.0078 (J)
8/13/2020			0.0087 (J)
8/17/2020		0.0056 (J)	
9/24/2020			0.0084 (J)
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/14/2021			
4/15/2021	0.088		
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021	0.077		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.03								
1/30/2019		<0.03							
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0012 (J)
9/16/2021	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016						9E-05 (J)			
9/6/2016							<0.0002		<0.0002
9/7/2016									
12/6/2016				9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016						<0.0002	9E-05 (J)		<0.0002
12/8/2016									
3/28/2017	<0.0002	<0.0002	<0.0002						
3/29/2017				8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017							7E-05 (J)		6E-05 (J)
5/11/2017	<0.0002								
5/12/2017			6E-05 (J)						
5/15/2017		<0.0002							
6/15/2017	8E-05 (J)	7E-05 (J)							
6/16/2017			7E-05 (J)						
7/11/2017		<0.0002	<0.0002						
7/12/2017	<0.0002			<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
8/8/2017		<0.0002							
10/24/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
10/25/2017						6E-05 (J)		<0.0002	<0.0002
11/15/2017							<0.0002		
2/27/2018		<0.0002	<0.0002	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018							<0.0002		<0.0002
3/8/2018	<0.0002								
7/11/2018						3.6E-05 (J)		<0.0002	<0.0002
7/12/2018	<0.0002								
11/6/2018		<0.0002	<0.0002	<0.0002	<0.0002				
11/7/2018	<0.0002					<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019	<0.0002						<0.0002		<0.0002
9/17/2019						<0.0002			
10/15/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
10/16/2019	<0.0002						<0.0002	<0.0002	
10/17/2019									<0.0002
10/18/2019									
3/2/2020		<0.0002	<0.0002		<0.0002	<0.0002			
3/3/2020				<0.0002			<0.0002	<0.0002	<0.0002
3/4/2020									
3/9/2020	<0.0002								
8/11/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020							<0.0002		
8/13/2020	<0.0002								<0.0002
8/14/2020									
9/22/2020	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	
9/23/2020							<0.0002		<0.0002
9/24/2020				8.1E-05 (J)					
3/1/2021		<0.0002	9E-05 (J)						
3/2/2021					<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021						<0.0002			
3/4/2021				<0.0002					
3/12/2021	<0.0002								
9/8/2021			9.6E-05 (J)						

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		4E-05 (J)	
9/6/2016			
9/7/2016	6E-05 (J)		
12/6/2016			
12/7/2016		5E-05 (J)	
12/8/2016	<0.0002		
3/28/2017			
3/29/2017		9E-05 (J)	
3/30/2017	0.00012 (J)		7E-05 (J)
5/11/2017			8.3E-05 (J)
5/12/2017			
5/15/2017			
6/15/2017			8E-05 (J)
6/16/2017			
7/11/2017			<0.0002
7/12/2017	5E-05 (J)	<0.0002	
8/8/2017			
10/24/2017			<0.0002
10/25/2017	5E-05 (J)	<0.0002	
11/15/2017			
2/27/2018			<0.0002
2/28/2018	<0.0002	<0.0002	
3/8/2018			
7/11/2018	<0.0002	<0.0002	<0.0002
7/12/2018			
11/6/2018			0.00064
11/7/2018	<0.0002	<0.0002	
8/27/2019	0.00016 (J)		<0.0002
8/28/2019		<0.0002	
9/17/2019			
10/15/2019			
10/16/2019		<0.0002	
10/17/2019			<0.0002
10/18/2019	<0.0002		
3/2/2020			
3/3/2020		<0.0002	<0.0002
3/4/2020	<0.0002		
3/9/2020			
8/11/2020		<0.0002	<0.0002
8/12/2020			
8/13/2020			
8/14/2020	9.8E-05 (J)		
9/22/2020		<0.0002	
9/23/2020			<0.0002
9/24/2020	8.2E-05 (J)		
3/1/2021			
3/2/2021		<0.0002	<0.0002
3/3/2021	<0.0002		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.0002	<0.0002
9/10/2021			
9/13/2021	8.6E-05 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.00015 (J)
9/1/2016							<0.0002	<0.0002	
9/2/2016	<0.0002	6E-05 (J)	5E-05 (J)						
9/7/2016						<0.0002			
12/6/2016									0.00012 (J)
12/7/2016	8E-05 (J)								
12/8/2016		<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
3/28/2017					<0.0002				0.00017 (J)
3/29/2017	8E-05 (J)		0.0001 (J)						
3/30/2017		8E-05 (J)		0.0002 (J)				6E-05 (J)	
3/31/2017						4E-05 (J)	<0.0002		
5/12/2017				0.00015 (J)	8.2E-05 (J)				
6/15/2017				0.00019 (J)	8E-05 (J)				
7/11/2017					<0.0002				0.0002 (J)
7/12/2017	<0.0002	6E-05 (J)		0.00012 (J)					
7/13/2017			<0.0002			<0.0002	<0.0002	<0.0002	
10/24/2017					<0.0002				
10/25/2017	<0.0002	5E-05 (J)	<0.0002			<0.0002			9E-05 (J)
10/26/2017				0.00012 (J)			<0.0002	<0.0002	
2/27/2018					<0.0002				9E-05 (J)
2/28/2018	<0.0002	<0.0002	<0.0002			<0.0002			
3/1/2018				<0.0002			<0.0002		
3/2/2018								<0.0002	
7/11/2018	<0.0002	<0.0002				<0.0002			
7/12/2018			5.5E-05 (J)	0.00016 (J)			<0.0002	<0.0002	
11/6/2018					0.00059				0.00055
11/7/2018	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
11/8/2018				<0.0002					
8/27/2019					<0.0002				0.00016 (J)
8/28/2019						<0.0002			
8/29/2019	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	
10/15/2019					<0.0002				
10/16/2019									<0.0002
10/17/2019	<0.0002	<0.0002				<0.0002	<0.0002		
10/18/2019			<0.0002	<0.0002				<0.0002	
3/2/2020					<0.0002				<0.0002
3/3/2020		<0.0002	<0.0002						
3/4/2020	<0.0002			0.00026		<0.0002	<0.0002	<0.0002	
8/11/2020									
8/12/2020					<0.0002		<0.0002		0.00017 (J)
8/13/2020	<0.0002			0.00014 (J)		<0.0002		<0.0002	
8/14/2020		<0.0002	<0.0002						
8/17/2020									
9/22/2020	<0.0002				<0.0002	<0.0002			0.0002 (J)
9/23/2020							<0.0002	<0.0002	
9/24/2020		0.00012 (J)	<0.0002	0.0002 (J)					
9/25/2020									
3/1/2021					<0.0002				
3/2/2021	9E-05 (J)								9.4E-05 (J)
3/3/2021		<0.0002	<0.0002	0.00033		<0.0002	<0.0002	<0.0002	
9/9/2021		<0.0002		0.00011 (J)					

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/10/2021	<0.0002		0.00011 (J)		0.00013 (J)		<0.0002	<0.0002	0.0003
9/13/2021						<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	9E-05 (J)	<0.0002	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0001 (J)	5E-05 (J)	
12/7/2016			
12/8/2016			
3/28/2017		<0.0002	
3/29/2017	0.00012 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	6E-05 (J)	<0.0002	
7/12/2017			
7/13/2017			
10/24/2017	<0.0002	<0.0002	
10/25/2017			
10/26/2017			
2/27/2018	4.2E-05 (J)	4.2E-05 (J)	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.0002	
7/12/2018			
11/6/2018	<0.0002	<0.0002	
11/7/2018			
11/8/2018			
8/27/2019		0.00021 (J)	
8/28/2019	<0.0002		
8/29/2019			
10/15/2019			
10/16/2019	<0.0002		
10/17/2019		0.00042 (J)	
10/18/2019			
3/2/2020			
3/3/2020	<0.0002	<0.0002	
3/4/2020			
8/11/2020		0.00026	
8/12/2020	7.9E-05 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.00011 (J)
9/22/2020		0.00013 (J)	
9/23/2020	<0.0002		
9/24/2020			
9/25/2020			<0.0002
3/1/2021			
3/2/2021	<0.0002	0.00017 (J)	
3/3/2021			
9/9/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/10/2021		0.00014 (J)	
9/13/2021	<0.0002		<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			7.9E-05 (J)		0.00016 (J)	0.00014 (J)		9.4E-05 (J)	
12/17/2020		<0.0002		<0.0002					
1/11/2021		<0.0002							
1/12/2021	<0.0002		<0.0002					<0.0002	
1/13/2021							<0.0002		
3/3/2021									
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
3/5/2021	0.00014 (J)							<0.0002	
3/8/2021							<0.0002		
3/12/2021									
4/14/2021									<0.0002
4/15/2021									
9/9/2021									
9/10/2021		<0.0002					<0.0002		
9/13/2021	<0.0002			<0.0002	<0.0002				
9/14/2021			<0.0002			<0.0002		<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0002
4/14/2021			
4/15/2021	<0.0002		
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0002								
1/30/2019		<0.0002							
9/11/2019	<0.0002								
9/12/2019		<0.0002							
9/18/2019			<0.0002						
9/23/2019				<0.0002					
10/21/2019		<0.0002		<0.0002	<0.0002				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.0002
9/16/2021	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.01	<0.01			<0.01	
9/1/2016						<0.01			
9/6/2016							0.0371		<0.01
9/7/2016									
12/6/2016				<0.01	<0.01			<0.01	
12/7/2016						<0.01	0.0273		<0.01
12/8/2016									
3/28/2017	0.0242	<0.01	0.0009 (J)						
3/29/2017				<0.01	<0.01	<0.01		<0.01	
3/30/2017							0.03		<0.01
5/11/2017	0.0375								
5/12/2017			<0.01						
5/15/2017		<0.01							
6/15/2017	0.0409	<0.01							
6/16/2017			<0.01						
7/11/2017		<0.01	<0.01						
7/12/2017	0.0321			<0.01	<0.01	<0.01	0.0323	<0.01	<0.01
8/8/2017		<0.01							
10/24/2017	0.0227	<0.01	<0.01	<0.01	<0.01				
10/25/2017						<0.01		<0.01	<0.01
11/15/2017							0.0275		
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
2/28/2018							0.0093 (J)		<0.01
3/8/2018	0.035								
7/11/2018						<0.01		<0.01	<0.01
7/12/2018	0.034								
11/6/2018		<0.01	<0.01	<0.01	<0.01				
11/7/2018	0.029					<0.01	0.018	<0.01	<0.01
8/27/2019		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
8/28/2019	0.031						0.015		<0.01
9/17/2019						<0.01			
10/15/2019		<0.01	<0.01	<0.01	<0.01	<0.01			
10/16/2019	0.037						0.014	<0.01	
10/17/2019									<0.01
10/18/2019									
3/2/2020		<0.01	<0.01		<0.01	<0.01			
3/3/2020				<0.01			0.018	<0.01	<0.01
3/4/2020									
3/9/2020	0.026								
8/11/2020		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
8/12/2020							0.012		
8/13/2020	0.012								<0.01
8/14/2020									
9/22/2020	0.039	<0.01	<0.01		<0.01	<0.01		<0.01	
9/23/2020							0.012		<0.01
9/24/2020				<0.01					
3/1/2021		<0.01	<0.01						
3/2/2021					<0.01		0.011	<0.01	<0.01
3/3/2021						<0.01			
3/4/2021				<0.01					
3/12/2021	0.018								
9/8/2021			<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.01	
9/6/2016			
9/7/2016	<0.01		
12/6/2016			
12/7/2016		<0.01	
12/8/2016	<0.01		
3/28/2017			
3/29/2017		<0.01	
3/30/2017	<0.01		0.0009 (J)
5/11/2017			0.0009 (J)
5/12/2017			
5/15/2017			
6/15/2017			<0.01
6/16/2017			
7/11/2017			<0.01
7/12/2017	<0.01	<0.01	
8/8/2017			
10/24/2017			<0.01
10/25/2017	<0.01	<0.01	
11/15/2017			
2/27/2018			<0.01
2/28/2018	<0.01	<0.01	
3/8/2018			
7/11/2018	<0.01	<0.01	<0.01
7/12/2018			
11/6/2018			<0.01
11/7/2018	<0.01	<0.01	
8/27/2019	<0.01		0.002 (J)
8/28/2019		<0.01	
9/17/2019			
10/15/2019			
10/16/2019		<0.01	
10/17/2019			0.0018 (J)
10/18/2019	<0.01		
3/2/2020			
3/3/2020		<0.01	0.0022 (J)
3/4/2020	<0.01		
3/9/2020			
8/11/2020		<0.01	0.002 (J)
8/12/2020			
8/13/2020			
8/14/2020	<0.01		
9/22/2020		<0.01	
9/23/2020			0.0022 (J)
9/24/2020	<0.01		
3/1/2021			
3/2/2021		<0.01	0.0021 (J)
3/3/2021	<0.01		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.01	0.0023 (J)
9/10/2021			
9/13/2021	<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		<0.01		0.01					
9/10/2021	<0.01		<0.01		0.0052 (J)		<0.01	<0.01	<0.01
9/13/2021						<0.01			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.01	<0.01	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.01	<0.01	
12/7/2016			
12/8/2016			
3/28/2017		<0.01	
3/29/2017	<0.01		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.01	<0.01	
7/12/2017			
7/13/2017			
10/24/2017	<0.01	<0.01	
10/25/2017			
10/26/2017			
2/27/2018	<0.01	<0.01	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.01	
7/12/2018			
11/6/2018	<0.01	<0.01	
11/7/2018			
11/8/2018			
8/27/2019		<0.01	
8/28/2019	<0.01		
8/29/2019			
10/15/2019			
10/16/2019	<0.01		
10/17/2019		<0.01	
10/18/2019			
3/2/2020			
3/3/2020	<0.01	<0.01	
3/4/2020			
8/11/2020		<0.01	
8/12/2020	<0.01		
8/13/2020			
8/14/2020			
8/17/2020			<0.01
9/22/2020		<0.01	
9/23/2020	<0.01		
9/24/2020			
9/25/2020			<0.01
3/1/2021			
3/2/2021	<0.01	<0.01	
3/3/2021			
3/8/2021			<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.01	
9/13/2021	<0.01		<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0012 (J)		<0.01	<0.01		0.0055 (J)	
12/17/2020		<0.01		<0.01					
1/11/2021		<0.01							
1/12/2021	0.0022 (J)		<0.01					0.0054 (J)	
1/13/2021							0.0022 (J)		
3/3/2021									
3/4/2021		<0.01	<0.01	<0.01	<0.01	<0.01			
3/5/2021	<0.01							0.0067 (J)	
3/8/2021							0.0014 (J)		
3/12/2021									
4/14/2021									<0.01
4/15/2021									
9/9/2021									
9/10/2021		<0.01					0.0011 (J)		
9/13/2021	<0.01			<0.01	<0.01				
9/14/2021			<0.01			<0.01		0.013	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/14/2021			
4/15/2021	0.00089 (J)		
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021	<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.01								
1/30/2019		<0.01							
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.01
9/16/2021	

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				4.58	5.83			5.68	
9/1/2016					5.67				
9/6/2016							5.69		5.79
9/7/2016									
12/6/2016				4.9	5.91			5.63	
12/7/2016						5.65	5.96		5.94
12/8/2016									
3/28/2017	6.29		5.94						
3/29/2017				4.62	5.74	5.61		5.68	
3/30/2017							5.94		5.8
5/11/2017	6.6								
5/12/2017			5.46						
5/15/2017		5.72							
6/15/2017	6.41	5.74							
6/16/2017			5.81						
7/11/2017		5.62	5.74						
7/12/2017	5.91			4.81	5.82	5.81	5.84	5.66	5.81
8/8/2017		5.6							
10/24/2017	5.51	5.71	5.86	4.8	5.79				
10/25/2017						6.07		6.18	5.9
11/15/2017	6.5		5.77	4.9			5.87		
2/27/2018		5.5	5.66	5.55	5.94	5.73		5.63	
2/28/2018							5.99		5.8
3/8/2018	6.18								
7/10/2018		5.44	5.63	5.27	5.62		5.92		
7/11/2018								5.61	5.87
7/12/2018	6.33								
11/6/2018		5.71	5.79	5.3	5.69				
11/7/2018	6.22					5.85	5.87	5.58	5.9
3/12/2019		5.52	5.74	5.26	5.7	5.98			
3/13/2019	6						5.79	5.61	
3/14/2019									5.77
8/27/2019		5.53	5.87	5.14	5.55	5.55		5.58	
8/28/2019	6.04						5.71		5.88
9/17/2019						5.6			
10/15/2019		5.61	5.88	4.96	5.6	5.89			
10/16/2019	6.69						5.69	5.66	
10/17/2019									5.76
10/18/2019									
3/2/2020		5.54	5.77		5.62	6.13			
3/3/2020				4.77			5.71	5.73	5.79
3/4/2020									
3/9/2020	6.41								
8/11/2020		5.86	5.96	4.92	5.68	5.69		5.73	
8/12/2020							5.68		
8/13/2020	6.17								6.58
8/14/2020									
9/22/2020	6.43	6.01	6.06		5.54	6		5.7	
9/23/2020							5.72		5.85
9/24/2020				4.89					
3/1/2021		5.43	5.8						
3/2/2021					5.59		5.68	5.69	5.81

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		4.64	
9/6/2016			
9/7/2016	5.05		
12/6/2016			
12/7/2016		4.63	
12/8/2016	5.12		
3/28/2017			
3/29/2017		4.7	
3/30/2017	5.08		5.75
5/11/2017			5.67
5/12/2017			
5/15/2017			
6/15/2017			5.75
6/16/2017			
7/11/2017			5.87
7/12/2017	5	4.76	
8/8/2017			
10/24/2017			5.82
10/25/2017	5.73	4.66	
11/15/2017			
2/27/2018			5.85
2/28/2018	5.22	4.63	
3/8/2018			
7/10/2018			
7/11/2018	5.07	4.71	5.85
7/12/2018			
11/6/2018			5.88
11/7/2018	5.09	4.69	
3/12/2019			5.94
3/13/2019	5.07	4.76	
3/14/2019			
8/27/2019	4.96		5.94
8/28/2019		4.85	
9/17/2019			
10/15/2019			
10/16/2019		4.87	
10/17/2019			6.16
10/18/2019	5.08		
3/2/2020			
3/3/2020	5.07	4.89	5.94
3/4/2020	5.07		
3/9/2020			
8/11/2020		4.9	6.04
8/12/2020			
8/13/2020			
8/14/2020	5.01		
9/22/2020		4.91	
9/23/2020			5.99
9/24/2020	5.1		
3/1/2021			
3/2/2021		4.84	6.01

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/3/2021	5.23		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		4.82	6
9/10/2021			
9/13/2021	5.06		

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									4.31
9/1/2016							5.11	4.7	
9/2/2016	4.7	5.7	5.74						
9/7/2016						5.35			
12/6/2016									4.43
12/8/2016		5.64	6.03			5.41	5.71	4.58	
3/28/2017					6.01				4.44
3/29/2017	4.7		5.77						
3/30/2017		5.79		6.03				4.19	
3/31/2017						5.36	4.58		
5/12/2017				5.97	5.87				
6/15/2017				6	6.03				
7/11/2017					6.04				4.46
7/12/2017	4.67	5.71		5.97					
7/13/2017			5.71			5.27	4.95	4.3	
10/24/2017					5.99				
10/25/2017	4.71	5.68	5.77			5.38			4.54
10/26/2017				5.9			4.41	4.39	
11/15/2017					5.92				
2/27/2018					6.03				4.87
2/28/2018	4.51	5.71	5.77			5.37			
3/1/2018				6.19			3.93		
3/2/2018								4.14	
7/10/2018					5.96				4.77
7/11/2018	4.68					5.19			
7/12/2018			5.62	5.97			4.33	4.36	
11/6/2018					5.97				4.89
11/7/2018	4.64	5.61	5.71			5.18	4.48	4.23	
11/8/2018				5.96					
3/12/2019					5.85				4.42
3/13/2019	4.65	5.62							
3/14/2019			5.67	5.99		5.1	3.88	4.12	
8/27/2019					5.84				4.83
8/28/2019						5.3			
8/29/2019	4.64	5.61	5.66	5.96			4.35	4.28	
10/15/2019					5.98				
10/16/2019									4.78
10/17/2019	4.64	5.57				5.2	4.6		
10/18/2019			5.61	5.99				4.22	
3/2/2020					5.88				4.8
3/3/2020		5.65	5.74						
3/4/2020	4.22			5.68		5.18	3.86	4.27	
8/3/2020									
8/11/2020									
8/12/2020					5.93		4.43		4.84
8/13/2020	4.36			6		5.34		4.26	
8/14/2020		5.66	5.76						
8/17/2020									
9/22/2020	4.66				5.88	5.76			4.83
9/23/2020							4.4	4.64	
9/24/2020		5.64	5.69	6.19					

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/25/2020									
3/1/2021					5.82				
3/2/2021	4.45								5
3/3/2021		5.63	5.71	5.85		5.3	3.98	4.14	
3/8/2021									
9/9/2021		5.73		6					
9/10/2021	4.67		5.65		5.83		4.1	4.3	4.89
9/13/2021						5.15			

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	5.33	4.08	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	5.39	4.15	
12/8/2016			
3/28/2017		4.16	
3/29/2017	5.23		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	5.33	4.23	
7/12/2017			
7/13/2017			
10/24/2017	5.05	4.06	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	5.08	4.04	
2/28/2018			
3/1/2018			
3/2/2018			
7/10/2018	5.11		
7/11/2018		4.03	
7/12/2018			
11/6/2018	5.13	4	
11/7/2018			
11/8/2018			
3/12/2019	5.07	3.98	
3/13/2019			
3/14/2019			
8/27/2019		4.02	
8/28/2019	5.11		
8/29/2019			
10/15/2019			
10/16/2019	5.33		
10/17/2019		4.02	
10/18/2019			
3/2/2020			
3/3/2020	5.12	4.07	
3/4/2020			
8/3/2020			4.93
8/11/2020		4	
8/12/2020	5.36		
8/13/2020			
8/14/2020			
8/17/2020			5.02
9/22/2020		4	
9/23/2020	5.21		
9/24/2020			

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/25/2020			5.53
3/1/2021			
3/2/2021	6.6	3.99	
3/3/2021			
3/8/2021			5.32
9/9/2021			
9/10/2021		3.98	
9/13/2021	5.05		5.27

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			6.44		5.91	5.94		6.64	
12/17/2020		5.39		5.82					
1/11/2021		5.55							
1/12/2021	5.26		6.24					6.71	
1/13/2021							6.42		
3/3/2021									
3/4/2021		5.43	6.27	5.85	5.97	5.88			
3/5/2021	6.52							6.69	
3/8/2021							6.42		
3/12/2021									
4/14/2021									4.8
4/15/2021									
9/9/2021									
9/10/2021		5.36					6.86		
9/13/2021	6.07			5.91	5.88				
9/14/2021			8.58			5.81		7.29	5.38

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/14/2021			
4/15/2021	5.46		
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021	5.3		

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	5.39								
1/30/2019		6.83							
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
8/13/2020			6.14						
8/14/2020					5.59				
8/17/2020				5.48		5.76			
8/19/2020								4.78	
9/24/2020			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				

Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	6.3
9/13/2021	
9/14/2021	
9/15/2021	5.4
9/16/2021	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0366	<0.005			0.0016 (J)	
9/1/2016						0.0017 (J)			
9/6/2016							0.0011 (J)		<0.005
9/7/2016									
12/6/2016				0.0026 (J)	<0.005			<0.005	
12/7/2016						<0.005	0.0015 (J)		<0.005
12/8/2016									
3/28/2017	<0.005	<0.005	<0.005						
3/29/2017				0.0286	<0.005	0.0017 (J)		<0.005	
3/30/2017							0.0015 (J)		<0.005
5/11/2017	<0.005								
5/12/2017			<0.005						
5/15/2017		<0.005							
6/15/2017	<0.005	<0.005							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			0.0257	<0.005	0.0019 (J)	<0.005	<0.005	<0.005
8/8/2017		<0.005							
10/24/2017	<0.005	<0.005	<0.005	0.0281	<0.005				
10/25/2017						0.0024 (J)		<0.005	<0.005
11/15/2017							0.0019 (J)		
2/27/2018		<0.005	<0.005	0.0667	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		0.002 (J)	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	0.049	<0.005				
11/7/2018	<0.005					<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)
8/27/2019		<0.005	<0.005	0.015	<0.005	<0.005		<0.005	
8/28/2019	<0.005						0.0039 (J)		<0.005
9/17/2019						0.0014 (J)			
10/15/2019		<0.005	<0.005	0.071	<0.005	0.0019 (J)			
10/16/2019	<0.005						0.0031 (J)	0.0017 (J)	
10/17/2019									<0.005
10/18/2019									
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.021			0.0062 (J)	0.0014 (J)	<0.005
3/4/2020									
3/9/2020	<0.005								
8/11/2020		<0.005	<0.005	0.023	<0.005	0.0019 (J)		<0.005	
8/12/2020							0.0038 (J)		
8/13/2020	<0.005								0.0018 (J)
8/14/2020									
9/22/2020	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	
9/23/2020							0.0053 (J)		<0.005
9/24/2020				0.074					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		0.006	<0.005	<0.005
3/3/2021						<0.005			
3/4/2021				0.05					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0093 (J)	
9/6/2016			
9/7/2016	0.007 (J)		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	0.0087 (J)		
3/28/2017			
3/29/2017		0.0071 (J)	
3/30/2017	0.0099 (J)		<0.005
5/11/2017			<0.005
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	0.0072 (J)	0.0065 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0078 (J)	0.0087 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	<0.005	0.0114	
3/8/2018			
7/11/2018	0.007 (J)	0.0036 (J)	0.0045 (J)
7/12/2018			
11/6/2018			<0.01 (J)
11/7/2018	<0.005	<0.01 (J)	
8/27/2019	0.0073 (J)		0.0069 (J)
8/28/2019		0.004 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.006 (J)	
10/17/2019			0.0051 (J)
10/18/2019	0.0093 (J)		
3/2/2020			
3/3/2020		0.0066 (J)	0.0047 (J)
3/4/2020	0.0074 (J)		
3/9/2020			
8/11/2020		0.0096 (J)	0.0053 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0084 (J)		
9/22/2020		0.0052 (J)	
9/23/2020			0.0046 (J)
9/24/2020	0.015		
3/1/2021			
3/2/2021		0.0091	0.0037 (J)
3/3/2021	0.0072		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0083	0.0031 (J)
9/10/2021			
9/13/2021	0.0071		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		<0.005		<0.005					
9/10/2021	0.031		<0.005		<0.005		0.0035 (J)	0.0022 (J)	0.0099
9/13/2021						<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0032 (J)	0.0833	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.005	0.0065 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0954	
3/29/2017	0.0048 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0031 (J)	0.0561	
7/12/2017			
7/13/2017			
10/24/2017	0.0069 (J)	0.0653	
10/25/2017			
10/26/2017			
2/27/2018	<0.005	0.13	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.045	
7/12/2018			
11/6/2018	<0.01 (J)	0.12	
11/7/2018			
11/8/2018			
8/27/2019		0.067	
8/28/2019	<0.005		
8/29/2019			
10/15/2019			
10/16/2019	0.0016 (J)		
10/17/2019		0.19	
10/18/2019			
3/2/2020			
3/3/2020	0.0018 (J)	0.046	
3/4/2020			
8/11/2020		0.11	
8/12/2020	<0.005		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		0.23	
9/23/2020	0.0028 (J)		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.07	
3/3/2021			
3/8/2021			0.0019 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.057	
9/13/2021	<0.005		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		0.0016 (J)					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)			
3/5/2021	0.0031 (J)							0.0022 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.006
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	0.0041 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.011	
9/24/2020			<0.005
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.0016 (J)		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021	0.0022 (J)		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
10/24/2019			<0.005						
8/13/2020			<0.005						
8/14/2020					0.015				
8/17/2020				<0.005		0.0017 (J)			
8/19/2020								0.018	
9/24/2020			<0.005						
9/25/2020					0.019	0.0033 (J)			
9/28/2020				0.0021 (J)				0.036	
3/4/2021			0.0017 (J)		0.024				
3/5/2021						0.0033 (J)			
3/9/2021								0.0099 (J)	
9/13/2021						0.0021 (J)			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

2/19/2018
1/28/2019
1/30/2019
9/11/2019
9/12/2019
9/18/2019
9/23/2019
10/21/2019
10/22/2019
10/24/2019
8/13/2020
8/14/2020
8/17/2020
8/19/2020
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

0.0033 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		240	
9/6/2016			
9/7/2016	230		
12/6/2016			
12/7/2016		250	
12/8/2016	240		
3/28/2017			
3/29/2017		250	
3/30/2017	260		360
5/11/2017			340
5/12/2017			
5/15/2017			
6/15/2017			300
6/16/2017			
7/11/2017			330
7/12/2017	230	250	
8/8/2017			
10/24/2017			260
10/25/2017	240	270	
11/15/2017			
2/27/2018			189
2/28/2018	203	244	
3/8/2018			
7/11/2018	234	249	162
7/12/2018			
11/6/2018			190
11/7/2018	248	266	
3/12/2019			159
3/13/2019	268	299	
3/14/2019			
10/15/2019			
10/16/2019		323	
10/17/2019			134
10/18/2019	222		
3/2/2020			
3/3/2020		292	118
3/4/2020	222		
3/9/2020			
9/22/2020		310	
9/23/2020			122
9/24/2020	259		
3/1/2021			
3/2/2021		324	112
3/3/2021	237		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		315	110
9/10/2021			
9/13/2021	222		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									400
9/1/2016							470	540	
9/2/2016	580	300	140						
9/7/2016						370			
12/6/2016									460
12/7/2016	650								
12/8/2016		280	260			350	400	540	
3/28/2017					680				380
3/29/2017	640		290						
3/30/2017		270		220				550	
3/31/2017						380	350		
5/12/2017				220	680				
6/15/2017				200	730				
7/11/2017					740				440
7/12/2017	630	290		220					
7/13/2017			300			370	270	500	
10/24/2017					930				
10/25/2017	610	290	290			370			510
10/26/2017				220			290	510	
11/15/2017					820				
2/27/2018					811				453
2/28/2018	584	267	278			350			
3/1/2018				209			245		
3/2/2018								456	
7/11/2018	501	277				366			
7/12/2018			197	202			240	409	
11/6/2018					902				556
11/7/2018	554	286	320			439	143	432	
11/8/2018				292					
3/12/2019					987				484
3/13/2019	539	312							
3/14/2019			297	266		404	238	450	
10/15/2019					888				
10/16/2019									493
10/17/2019	426	255				321	179		
10/18/2019			254	203				336	
3/2/2020					840				455
3/3/2020		269	242						
3/4/2020	434			204		329	176	368	
9/22/2020	408				800	320			423
9/23/2020							111	313	
9/24/2020		269	262	215					
9/25/2020									
3/1/2021					840				
3/2/2021	458								412
3/3/2021		264	252	221		329	143	312	
3/8/2021									
9/9/2021		238		217					
9/10/2021	399		234		823		123	272	449
9/13/2021						285			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	450	300	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	480	320	
12/7/2016			
12/8/2016			
3/28/2017		300	
3/29/2017	660		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	440	320	
7/12/2017			
7/13/2017			
10/24/2017	430	430	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	340	327	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		344	
7/12/2018			
11/6/2018	307	438	
11/7/2018			
11/8/2018			
3/12/2019	295	362	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	235		
10/17/2019		331	
10/18/2019			
3/2/2020			
3/3/2020	195	247	
3/4/2020			
9/22/2020		282	
9/23/2020	178		
9/24/2020			
9/25/2020			385
3/1/2021			
3/2/2021	152	266	
3/3/2021			
3/8/2021			388
9/9/2021			
9/10/2021		264	
9/13/2021	145		351

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			415		273	277		197	
12/17/2020		249		179					
1/11/2021		249							
1/12/2021	207		471					222	
1/13/2021							99.8		
3/3/2021									
3/4/2021		256	474	170	309	309			
3/5/2021	236							270	
3/8/2021							102		
3/12/2021									
4/14/2021									256
4/15/2021									
9/9/2021									
9/10/2021		271					93.2		
9/13/2021	174			147	275				
9/14/2021			456			299		243	278

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/14/2021			
4/15/2021	556		
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021	552		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	87.9								
1/30/2019		292							
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				

Time Series

Constituent: Sulfate as SO₄ (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	150
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	325
9/16/2021	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0004 (J)	<0.001			<0.001	
9/1/2016						<0.001			
9/6/2016							<0.001		<0.001
9/7/2016									
12/6/2016				0.0004 (J)	<0.001			<0.001	
12/7/2016						<0.001	<0.001		<0.001
12/8/2016									
3/28/2017	<0.001	<0.001	6E-05 (J)						
3/29/2017				0.0006 (J)	<0.001	8E-05 (J)		<0.001	
3/30/2017							<0.001		<0.001
5/11/2017	<0.001								
5/12/2017			<0.001						
5/15/2017		<0.001							
6/15/2017	<0.001	<0.001							
6/16/2017			<0.001						
7/11/2017		<0.001	<0.001						
7/12/2017	<0.001			0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001
8/8/2017		<0.001							
10/24/2017	<0.001	<0.001	<0.001	0.0004 (J)	<0.001				
10/25/2017						9E-05 (J)		<0.001	<0.001
11/15/2017							<0.001		
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/28/2018							<0.001		<0.001
3/8/2018	<0.001								
7/11/2018						<0.001		<0.001	<0.001
7/12/2018	<0.001								
11/6/2018		<0.001	<0.001	<0.001 (J)	<0.001				
11/7/2018	<0.001					<0.001	<0.001	<0.001	<0.001 (J)
8/27/2019		<0.001	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001	
8/28/2019	<0.001						<0.001		<0.001
9/17/2019						9.7E-05 (J)			
10/15/2019		<0.001	<0.001	0.00039 (J)	<0.001	9.1E-05 (J)			
10/16/2019	<0.001						<0.001	<0.001	
10/17/2019									<0.001
10/18/2019									
3/2/2020		7.8E-05 (J)	<0.001		<0.001	0.00013 (J)			
3/3/2020				0.00042 (J)			<0.001	<0.001	<0.001
3/4/2020									
3/9/2020	<0.001								
8/11/2020		<0.001	<0.001	0.00037 (J)	<0.001	<0.001		<0.001	
8/12/2020							<0.001		
8/13/2020	<0.001								<0.001
8/14/2020									
9/22/2020	<0.001	<0.001	<0.001		<0.001	<0.001		<0.001	
9/23/2020							<0.001		<0.001
9/24/2020				0.00034 (J)					
3/1/2021		<0.001	<0.001						
3/2/2021					<0.001		<0.001	<0.001	<0.001
3/3/2021						<0.001			
3/4/2021				0.00042 (J)					
3/12/2021	<0.001								
9/8/2021			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0005 (J)	
9/6/2016			
9/7/2016	<0.001		
12/6/2016			
12/7/2016		0.0005 (J)	
12/8/2016	<0.001		
3/28/2017			
3/29/2017		0.0004 (J)	
3/30/2017	0.0002 (J)		<0.001
5/11/2017			<0.001
5/12/2017			
5/15/2017			
6/15/2017			<0.001
6/16/2017			
7/11/2017			<0.001
7/12/2017	0.0002 (J)	0.0005 (J)	
8/8/2017			
10/24/2017			<0.001
10/25/2017	0.0002 (J)	0.0004 (J)	
11/15/2017			
2/27/2018			<0.001
2/28/2018	0.00015 (J)	0.00049 (J)	
3/8/2018			
7/11/2018	0.00017 (J)	0.0005 (J)	<0.001
7/12/2018			
11/6/2018			<0.001
11/7/2018	<0.001	<0.001 (J)	
8/27/2019	0.00018 (J)		<0.001
8/28/2019		0.00053 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00053 (J)	
10/17/2019			<0.001
10/18/2019	0.00014 (J)		
3/2/2020			
3/3/2020		0.0006 (J)	<0.001
3/4/2020	0.00019 (J)		
3/9/2020			
8/11/2020		0.00059 (J)	<0.001
8/12/2020			
8/13/2020			
8/14/2020	0.00019 (J)		
9/22/2020		0.0005 (J)	
9/23/2020			<0.001
9/24/2020	0.00018 (J)		
3/1/2021			
3/2/2021		0.00056 (J)	<0.001
3/3/2021	0.00017 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00056 (J)	<0.001
9/10/2021			
9/13/2021	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/9/2021		<0.001		<0.001					
9/10/2021	0.00052 (J)		<0.001		<0.001		0.00036 (J)	<0.001	<0.001
9/13/2021						<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.001	<0.001	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.001	0.0006 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0007 (J)	
3/29/2017	0.0002 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0001 (J)	0.0007 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0003 (J)	0.0006 (J)	
10/25/2017			
10/26/2017			
2/27/2018	0.00033 (J)	0.00038 (J)	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.001	
7/12/2018			
11/6/2018	<0.001 (J)	<0.001	
11/7/2018			
11/8/2018			
8/27/2019		0.00053 (J)	
8/28/2019	0.00022 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.00025 (J)		
10/17/2019		0.00076 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.00023 (J)	0.00044 (J)	
3/4/2020			
8/11/2020		<0.001	
8/12/2020	0.00023 (J)		
8/13/2020			
8/14/2020			
8/17/2020			<0.001
9/22/2020		0.00043 (J)	
9/23/2020	0.0002 (J)		
9/24/2020			
9/25/2020			<0.001
3/1/2021			
3/2/2021	0.00019 (J)	<0.001	
3/3/2021			
3/8/2021			<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0004 (J)	
9/13/2021	0.00019 (J)		<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.001		<0.001	<0.001		<0.001	
12/17/2020		<0.001		<0.001					
1/11/2021		<0.001							
1/12/2021	<0.001		<0.001					<0.001	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		<0.001	<0.001	<0.001	<0.001	<0.001			
3/5/2021	<0.001							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									<0.001
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	<0.001		
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
8/13/2020			<0.001						
8/14/2020					<0.001				
8/17/2020				<0.001		<0.001			
8/19/2020								<0.001	
9/24/2020			<0.001						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.001
9/16/2021	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		396	
9/6/2016			
9/7/2016	353		
12/6/2016			
12/7/2016		400	
12/8/2016	408		
3/28/2017			
3/29/2017		390	
3/30/2017	338		580
5/11/2017			573
5/12/2017			
5/15/2017			
6/15/2017			626
6/16/2017			
7/11/2017			542
7/12/2017	417	360	
8/8/2017			
10/24/2017			523
10/25/2017	343	423	
11/15/2017			
2/27/2018			401
2/28/2018	364	440	
3/8/2018			
7/11/2018	393	457	334
7/12/2018			
11/6/2018			334
11/7/2018	408	461	
3/12/2019			297
3/13/2019	802	113	
3/14/2019			
10/15/2019			
10/16/2019		500	
10/17/2019			302
10/18/2019	403		
3/2/2020			
3/3/2020		526	277
3/4/2020	414		
3/9/2020			
9/22/2020		513	
9/23/2020			267
9/24/2020	411		
3/1/2021			
3/2/2021		513	241
3/3/2021	384		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		480	260
9/10/2021			
9/13/2021	424		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									524
9/1/2016							704	845	
9/2/2016	1100	459	502						
9/7/2016						611			
12/6/2016									690
12/7/2016	930								
12/8/2016		491	464			535	587	777	
3/28/2017					1160				545
3/29/2017	923		462						
3/30/2017		436		380				775	
3/31/2017						661	545		
5/12/2017				438	1230				
6/15/2017				458	1290				
7/11/2017					1160				612
7/12/2017	956	505		461					
7/13/2017			492			641	441	789	
10/24/2017					229				
10/25/2017	854	474	477			626			650
10/26/2017				446			444	753	
11/15/2017					1330				
2/27/2018					1380				698
2/28/2018	888	480	476			616			
3/1/2018				454			435		
3/2/2018								704	
7/11/2018	826	485				638			
7/12/2018			486	432			372	705	
11/6/2018					1480				809
11/7/2018	834	516	511			626	348	678	
11/8/2018				450					
3/12/2019					1490				711
3/13/2019	639	486							
3/14/2019			491	453		630	378	625	
10/15/2019					1520				
10/16/2019									702
10/17/2019	751	498				612	327		
10/18/2019			480	448				593	
3/2/2020					1540				759
3/3/2020		490	452						
3/4/2020	761			408		721	334	630	
9/22/2020	724				1400	547			716
9/23/2020							229	575	
9/24/2020		494	455	456					
9/25/2020									
3/1/2021					1140				
3/2/2021	742								730
3/3/2021		459	442	425		531	228	521	
3/8/2021									
9/9/2021		396		455					
9/10/2021	678		468		1520		274	532	792
9/13/2021						508			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	693	414	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	727	449	
12/7/2016			
12/8/2016			
3/28/2017		404	
3/29/2017	654		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	679	436	
7/12/2017			
7/13/2017			
10/24/2017	468	599	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	520	482	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		532	
7/12/2018			
11/6/2018	456	554	
11/7/2018			
11/8/2018			
3/12/2019	438	493	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	374		
10/17/2019		550	
10/18/2019			
3/2/2020			
3/3/2020	369	444	
3/4/2020			
9/22/2020		461	
9/23/2020	333		
9/24/2020			
9/25/2020			724
3/1/2021			
3/2/2021	291	449	
3/3/2021			
3/8/2021			660
9/9/2021			
9/10/2021		466	
9/13/2021	306		636

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			862		564	573		490	
12/17/2020		449		340					
1/11/2021		442							
1/12/2021	405		836					500	
1/13/2021							303		
3/3/2021									
3/4/2021		459	818	321	525	569			
3/5/2021	462							634	
3/8/2021							305		
3/12/2021									
4/14/2021									480
4/15/2021									
9/9/2021									
9/10/2021		474					284		
9/13/2021	343			296	567				
9/14/2021			776			576		586	499

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/14/2021			
4/15/2021	982		
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021	882		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	204								
1/30/2019		601							
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

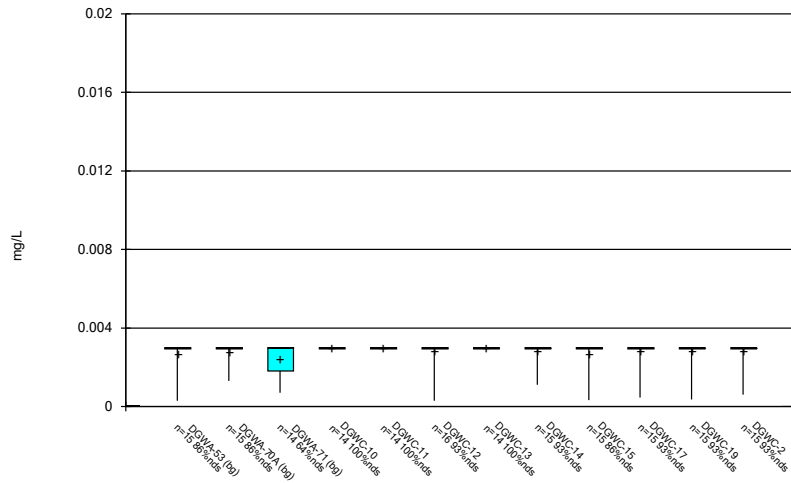
B-98

1/28/2019
1/30/2019
10/21/2019
10/22/2019
10/24/2019
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021

524

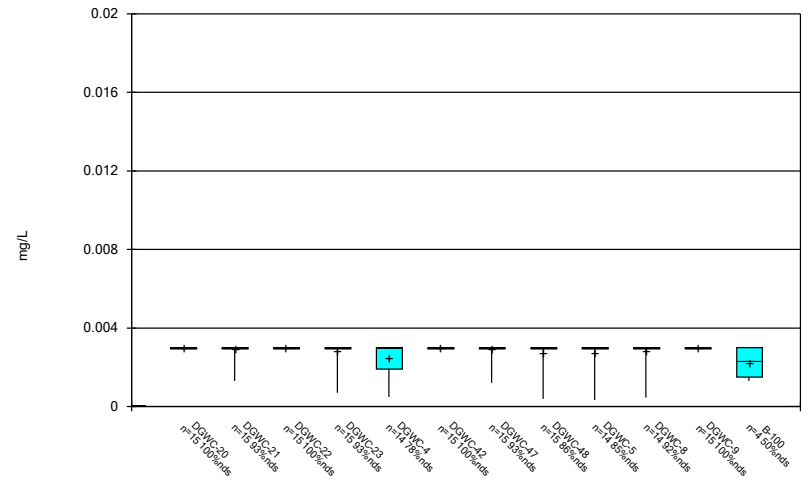
FIGURE B.

Box & Whiskers Plot



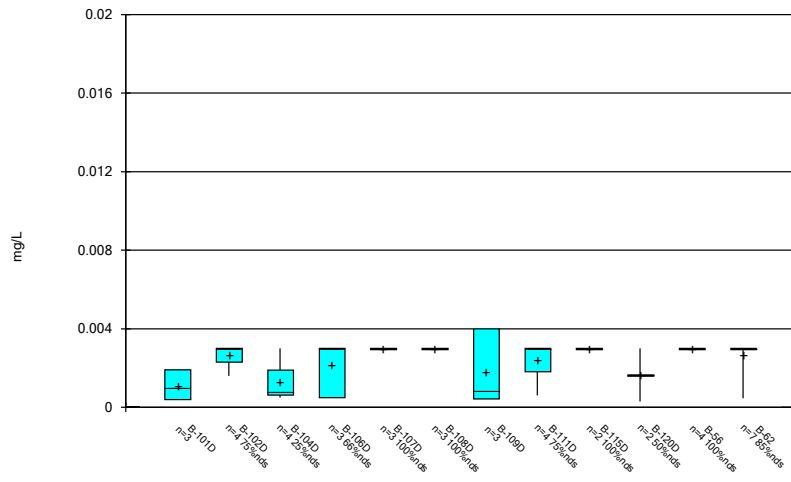
Constituent: Antimony Analysis Run 11/8/2021 1:08 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



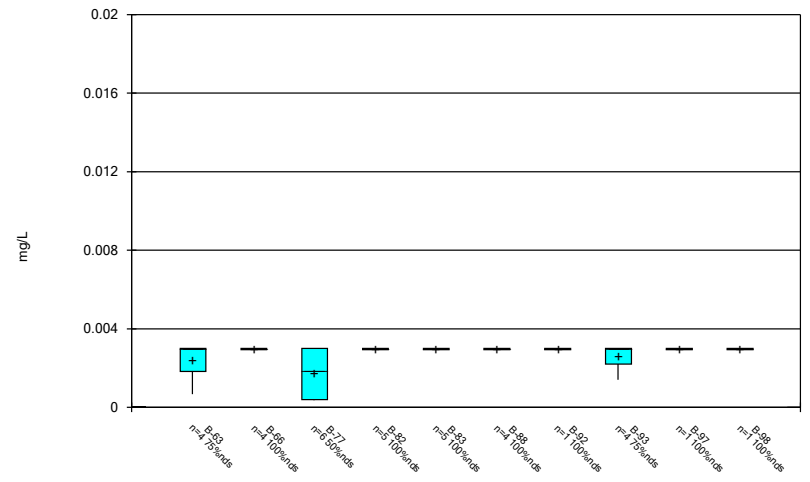
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



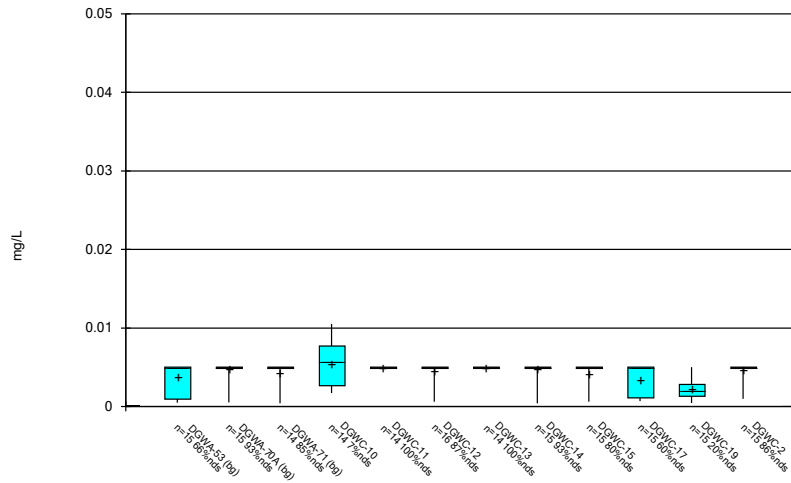
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



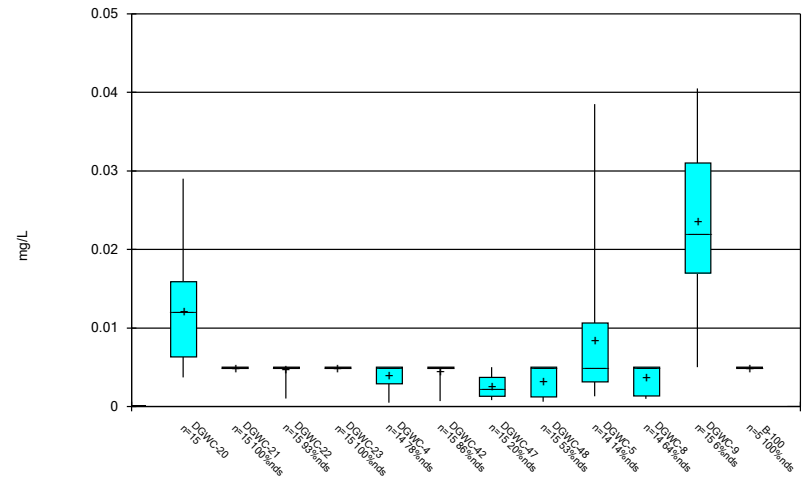
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



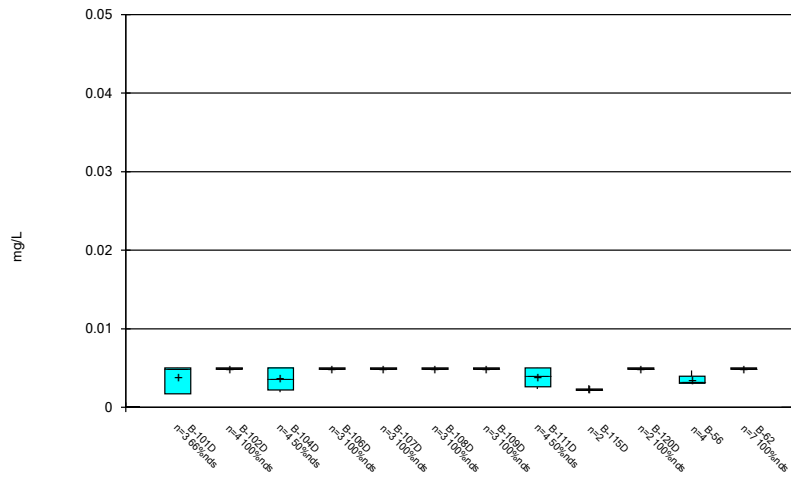
Constituent: Arsenic Analysis Run 11/8/2021 1:08 PM View: AP 234
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Box & Whiskers Plot



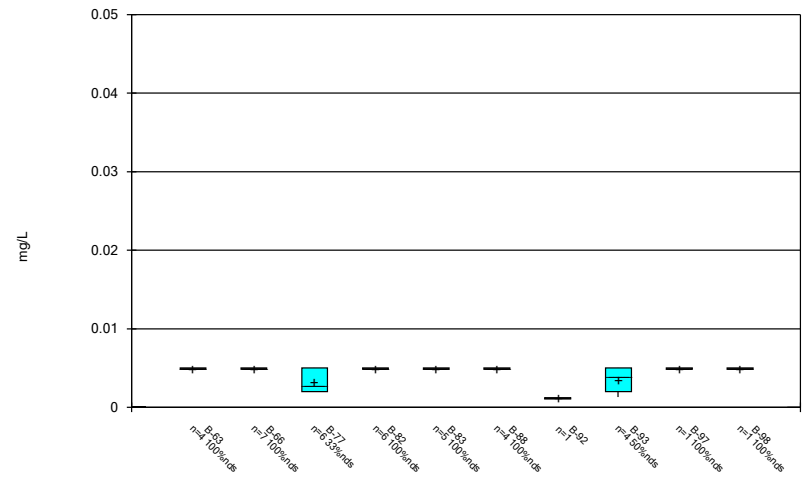
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



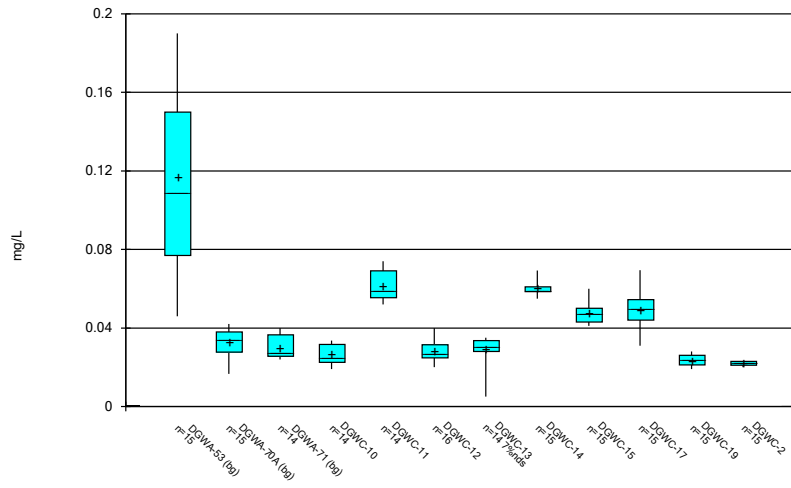
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



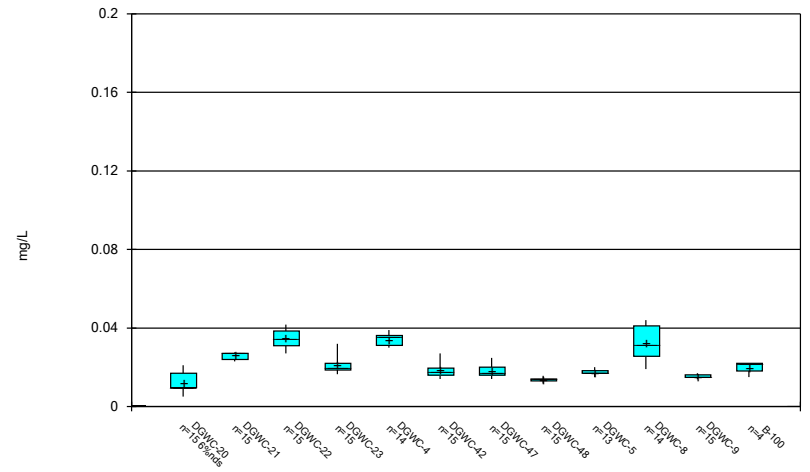
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



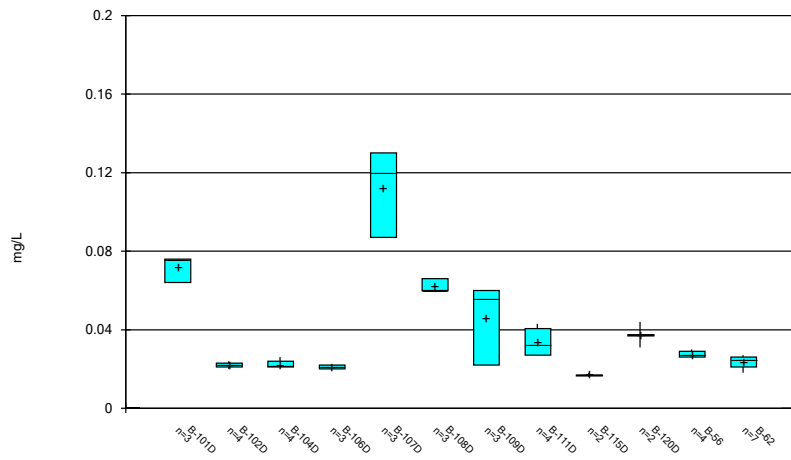
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



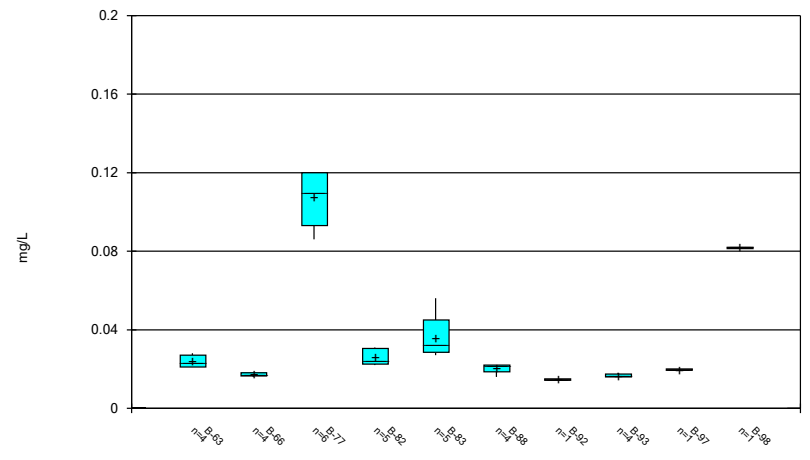
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



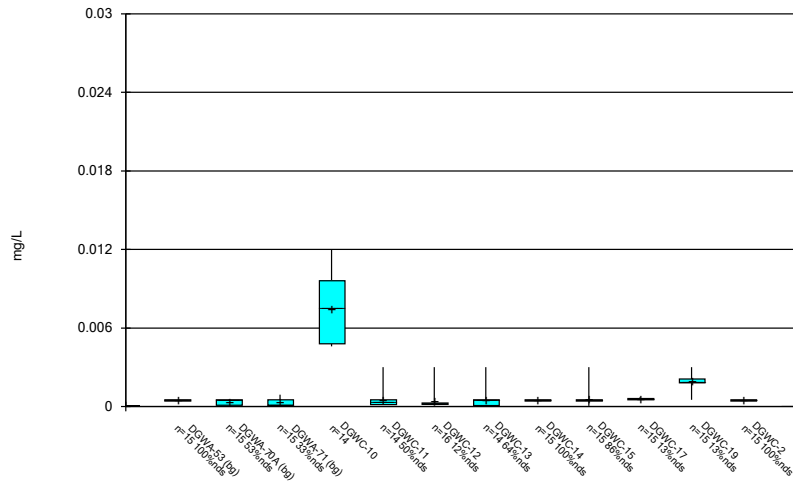
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



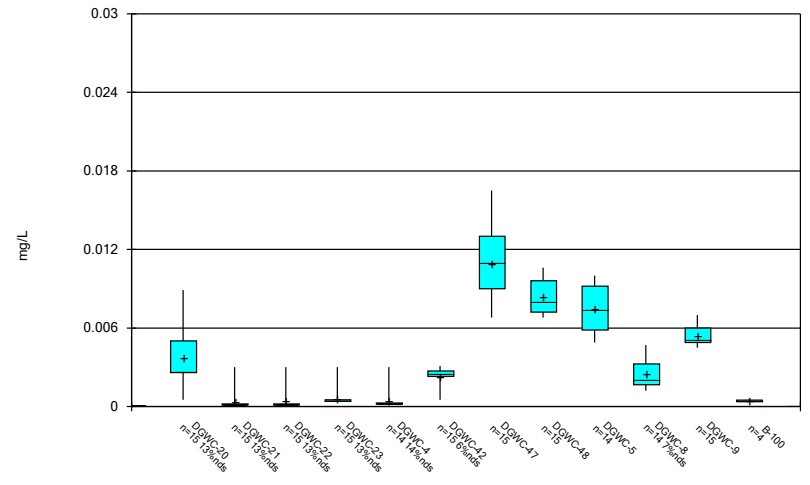
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



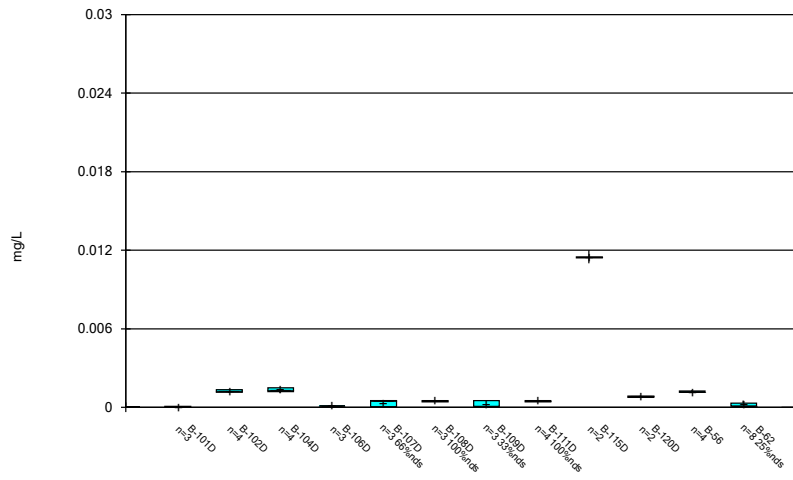
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



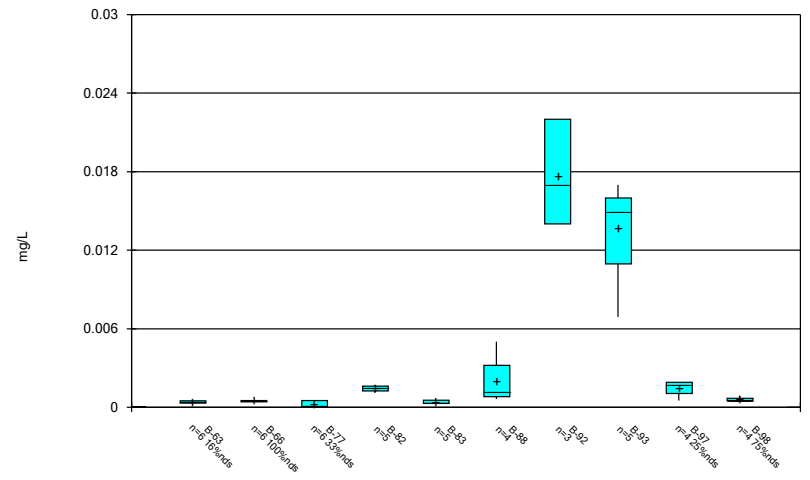
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



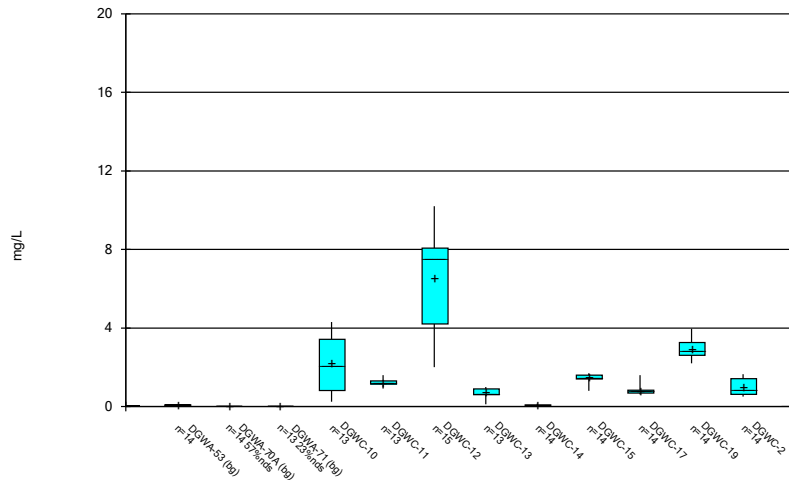
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Box & Whiskers Plot



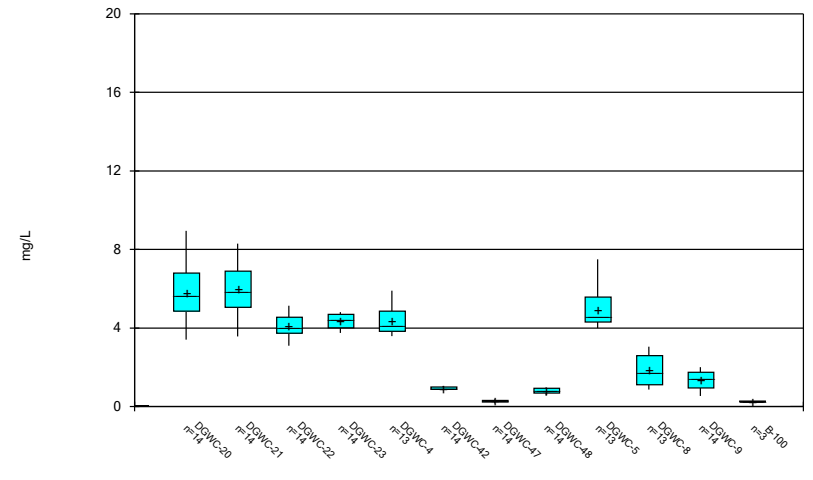
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Box & Whiskers Plot



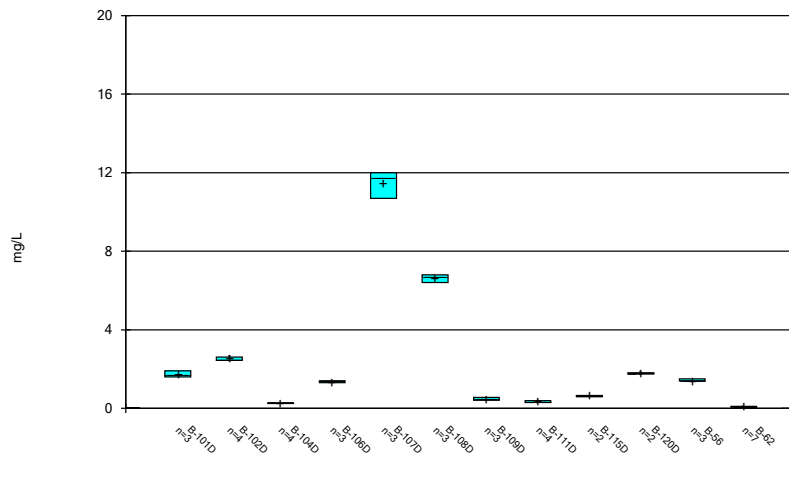
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Box & Whiskers Plot



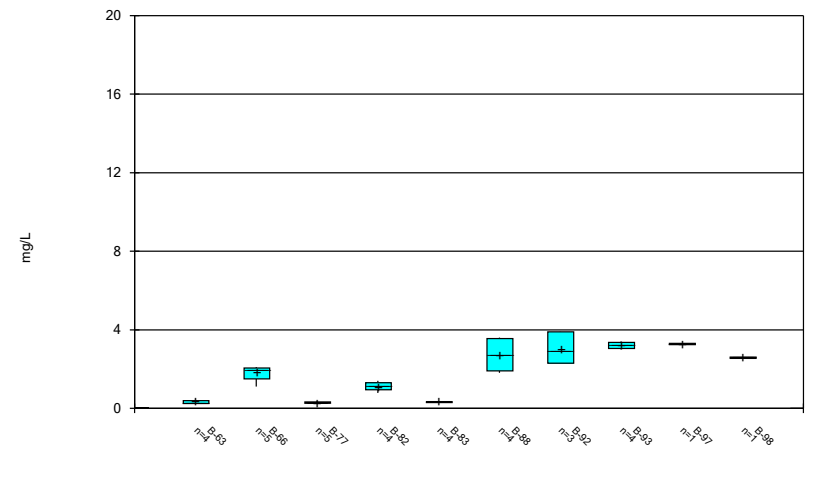
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Box & Whiskers Plot



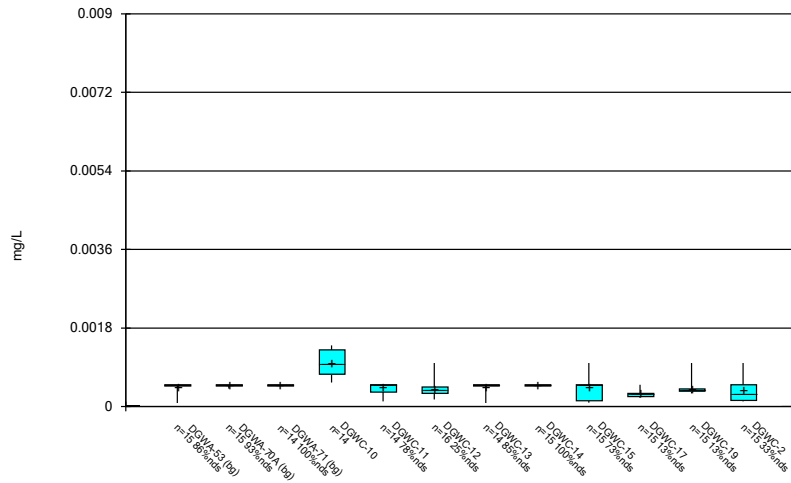
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Box & Whiskers Plot



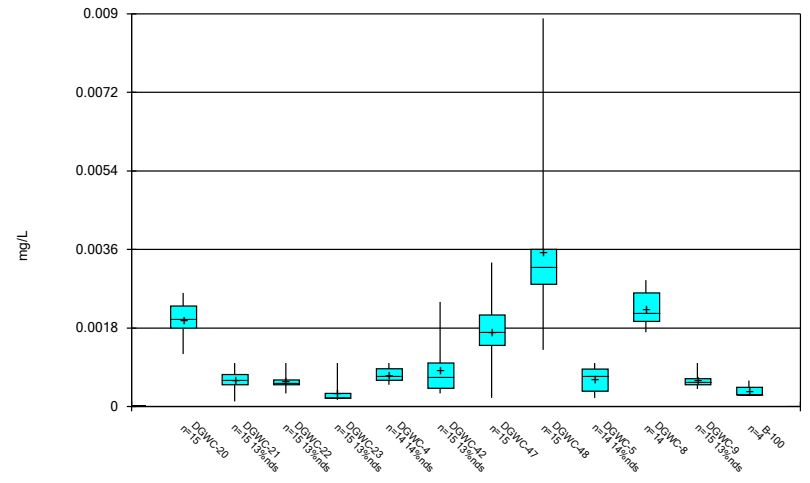
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Box & Whiskers Plot



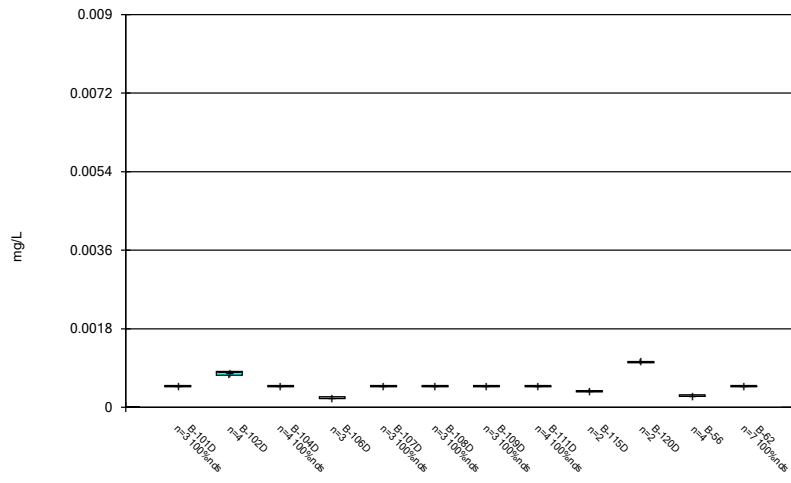
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



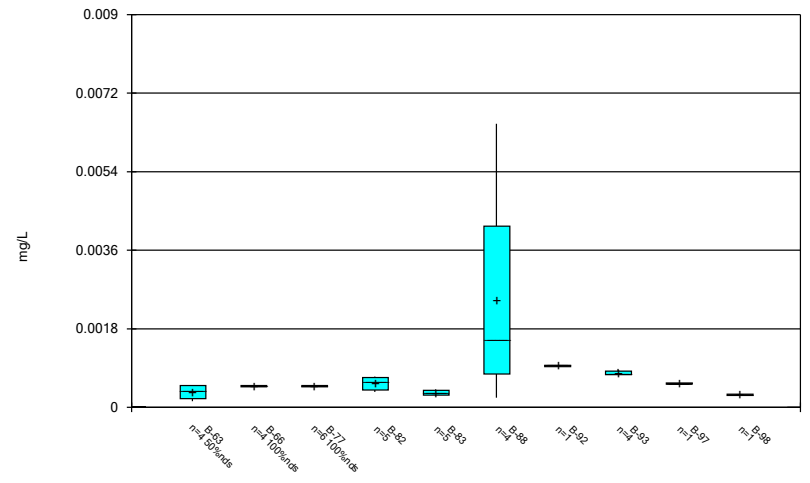
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Box & Whiskers Plot



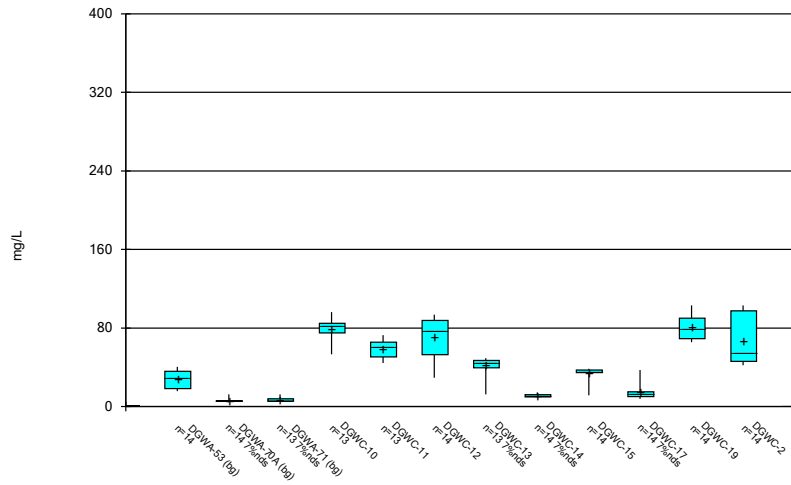
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Box & Whiskers Plot



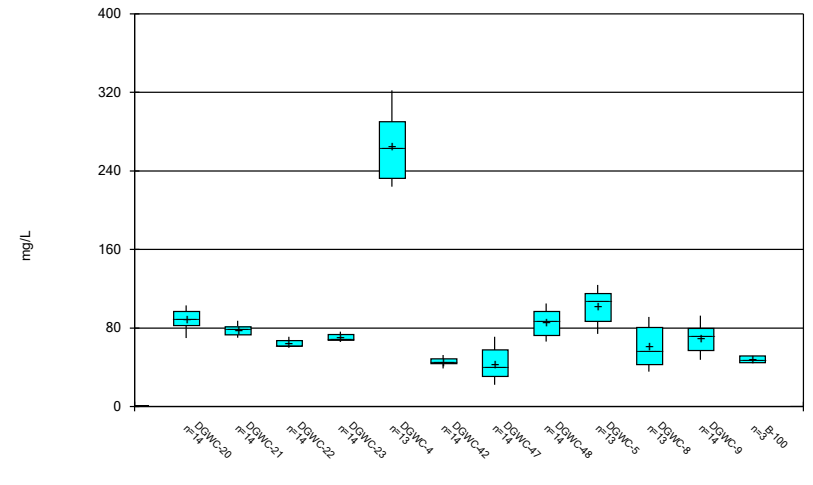
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Box & Whiskers Plot



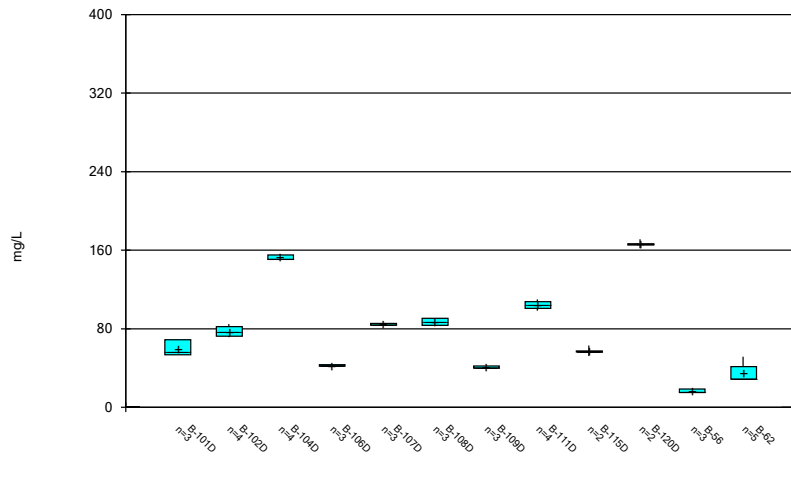
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Box & Whiskers Plot



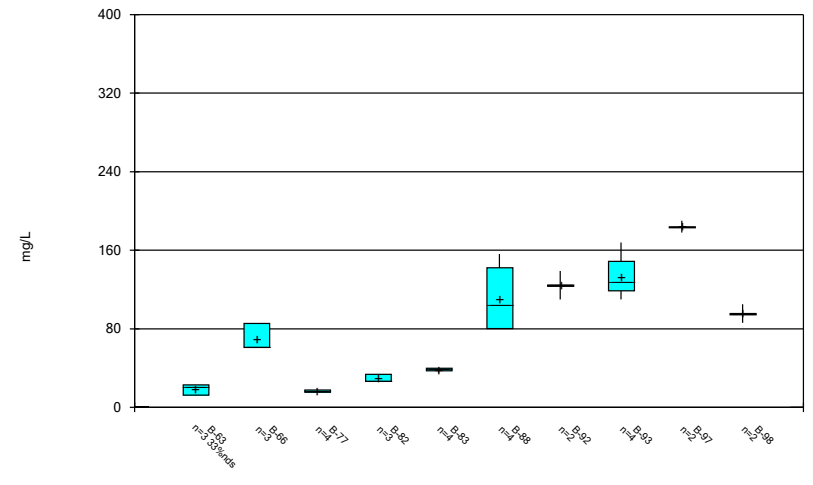
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Box & Whiskers Plot



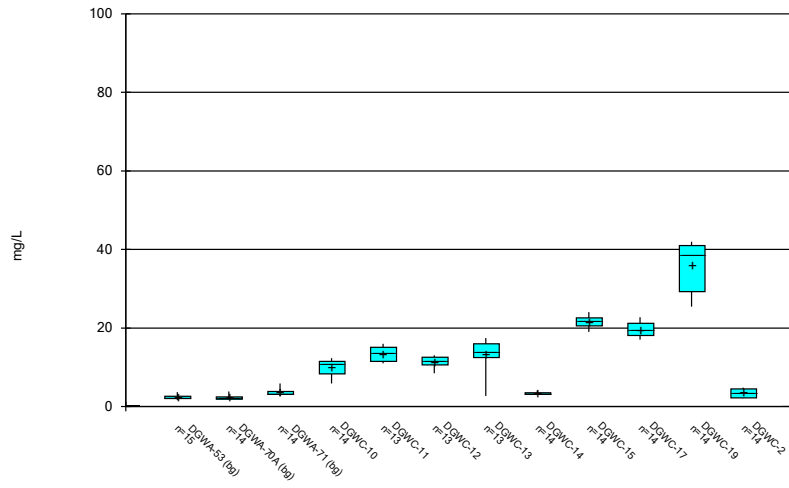
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Box & Whiskers Plot



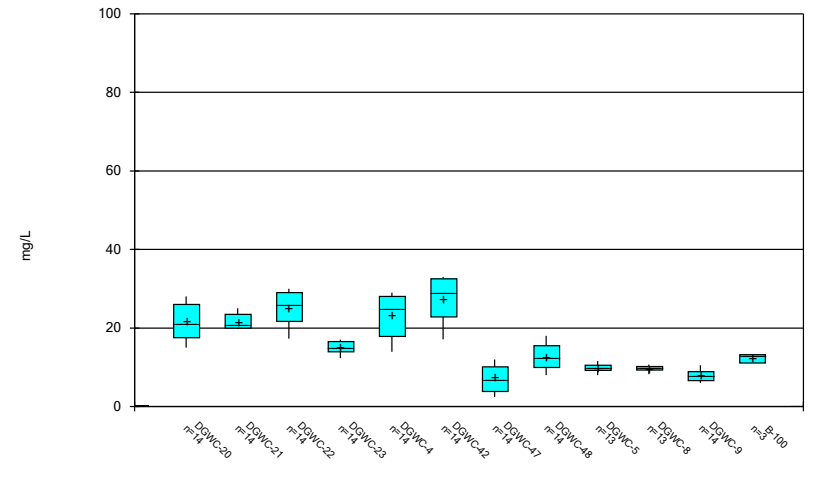
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Box & Whiskers Plot



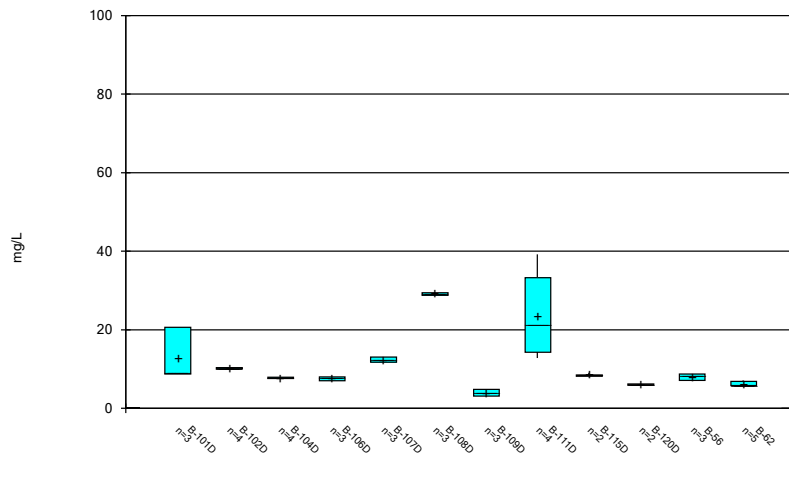
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Box & Whiskers Plot



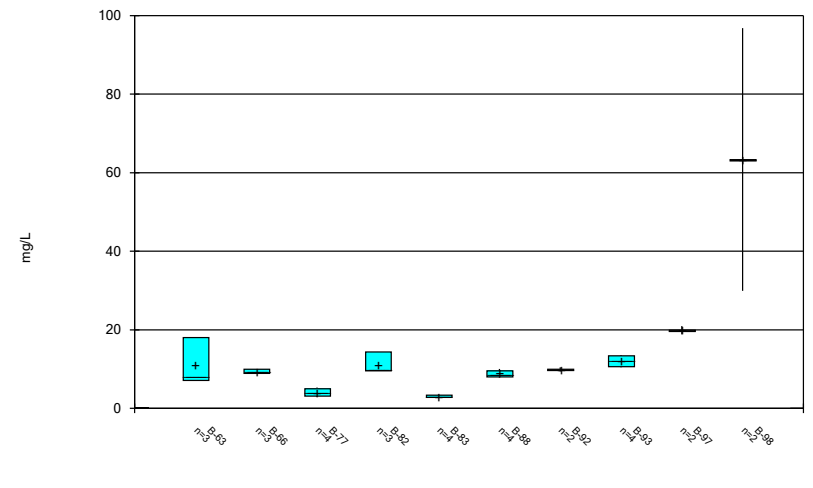
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Box & Whiskers Plot



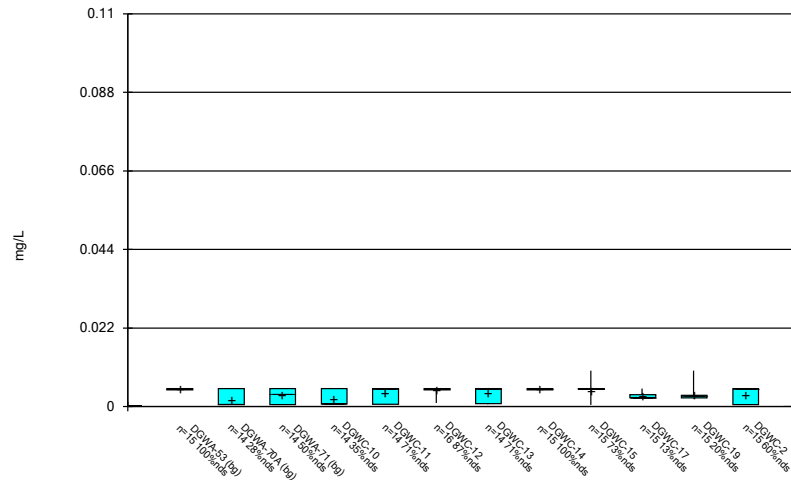
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Box & Whiskers Plot



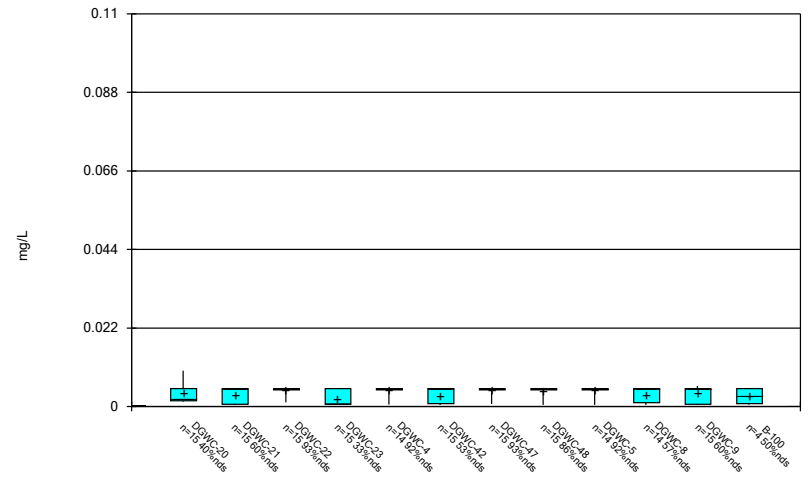
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



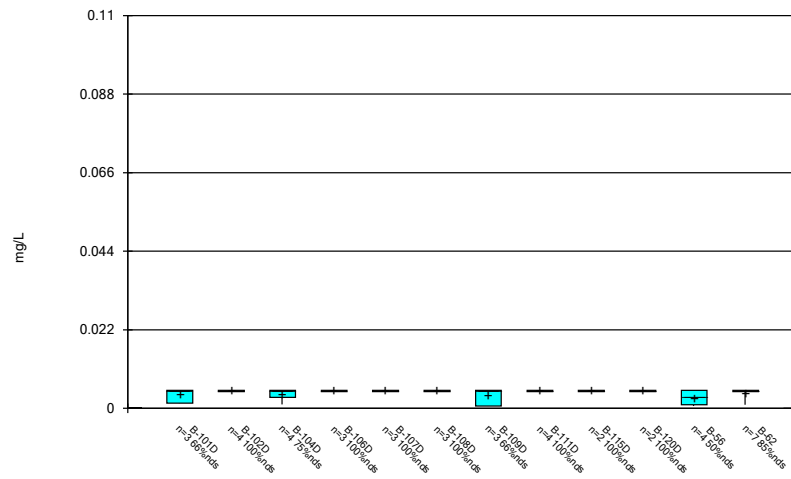
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



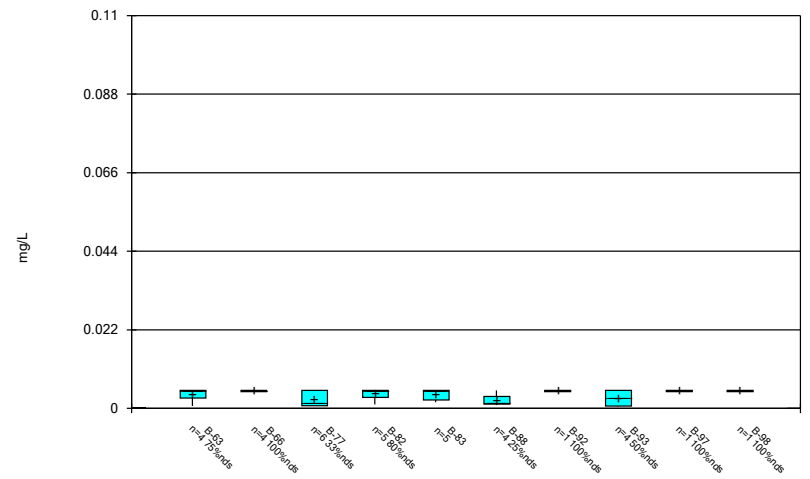
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



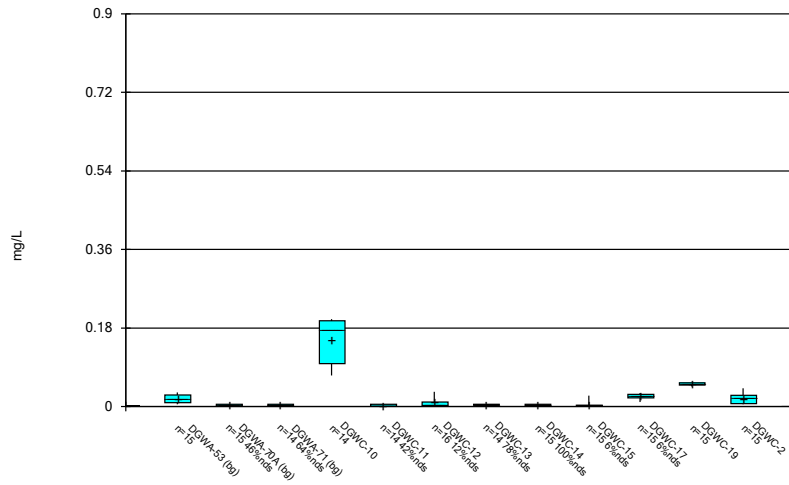
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



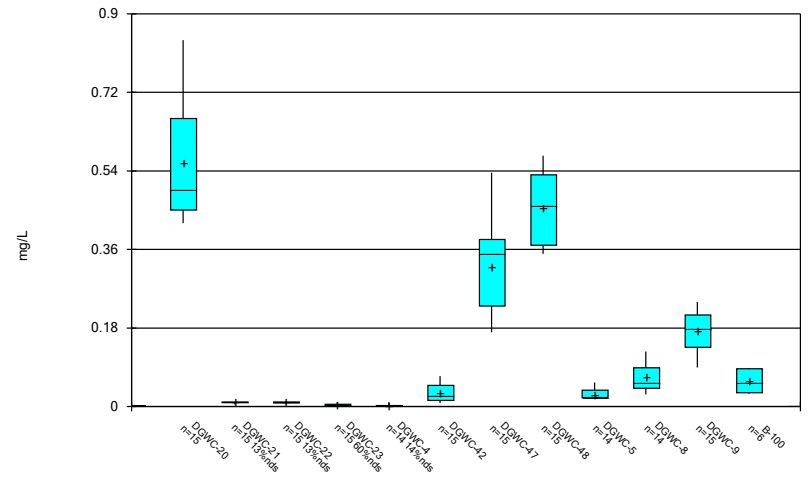
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Box & Whiskers Plot



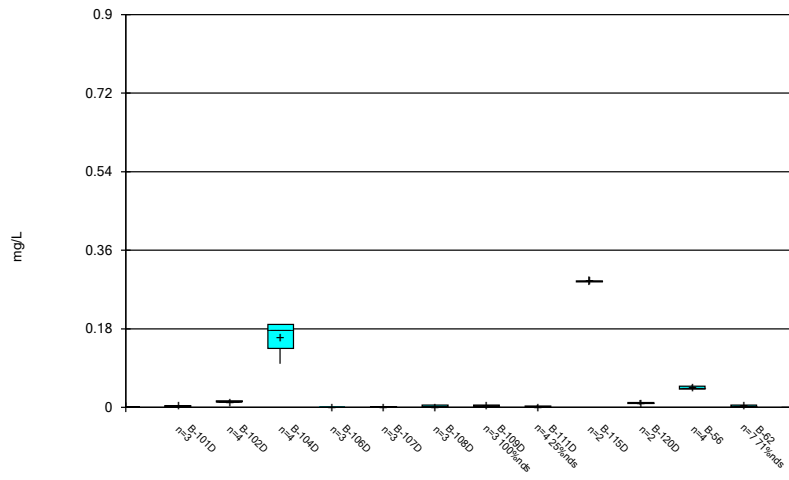
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Box & Whiskers Plot



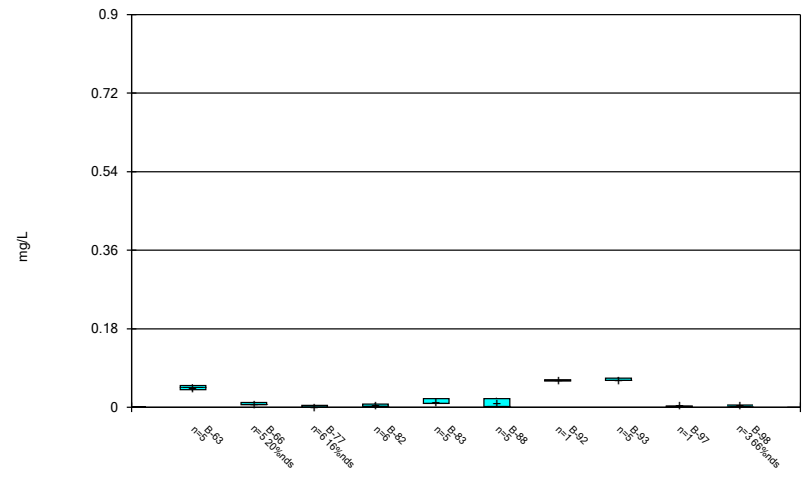
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Box & Whiskers Plot



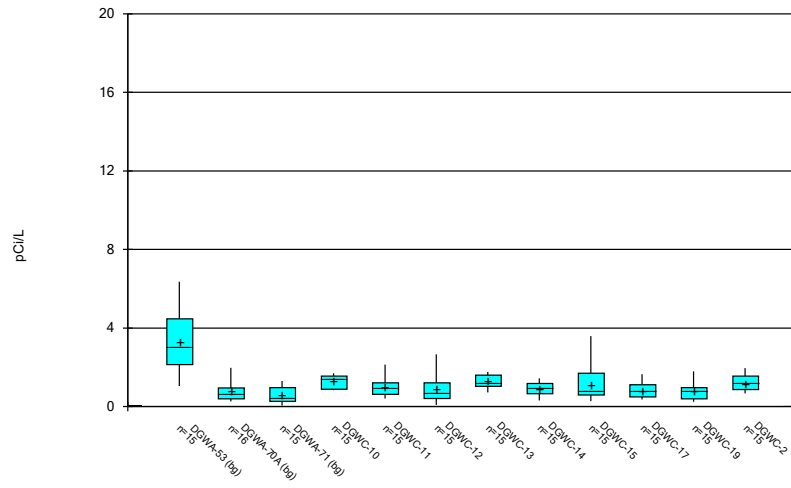
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



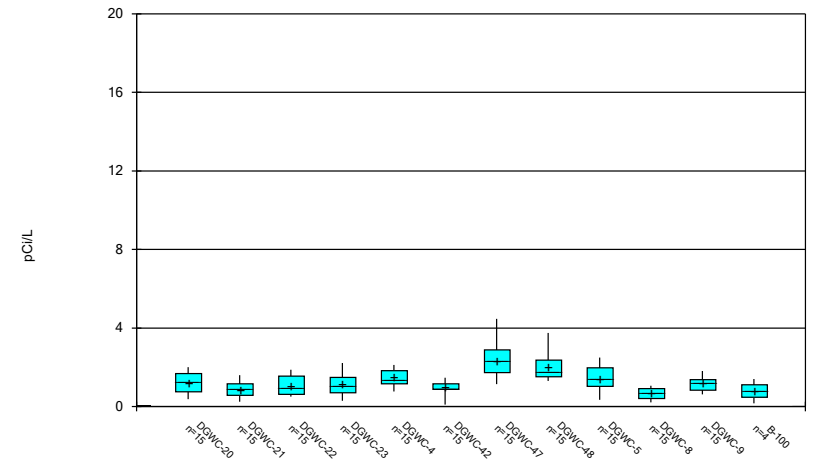
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



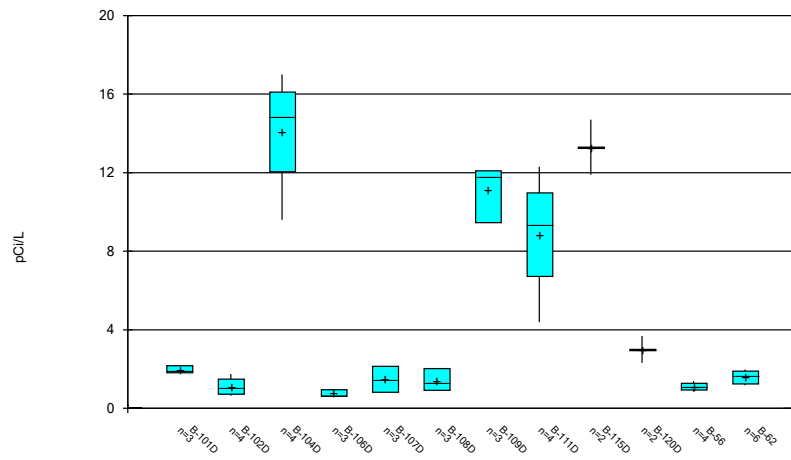
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



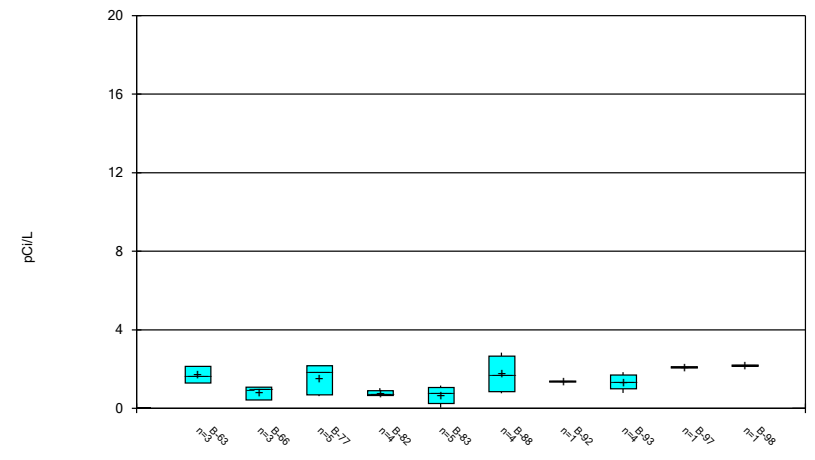
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



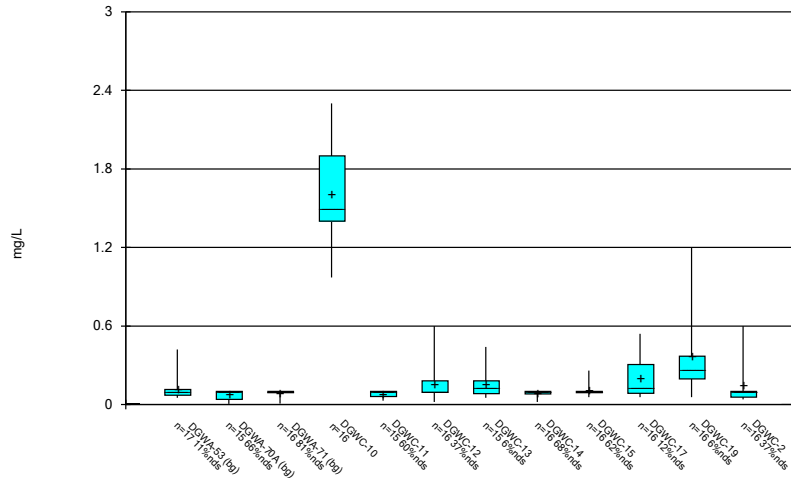
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



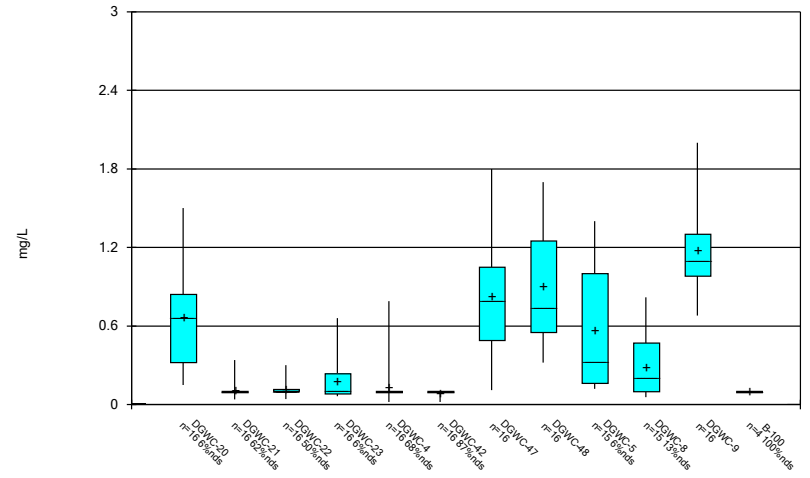
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



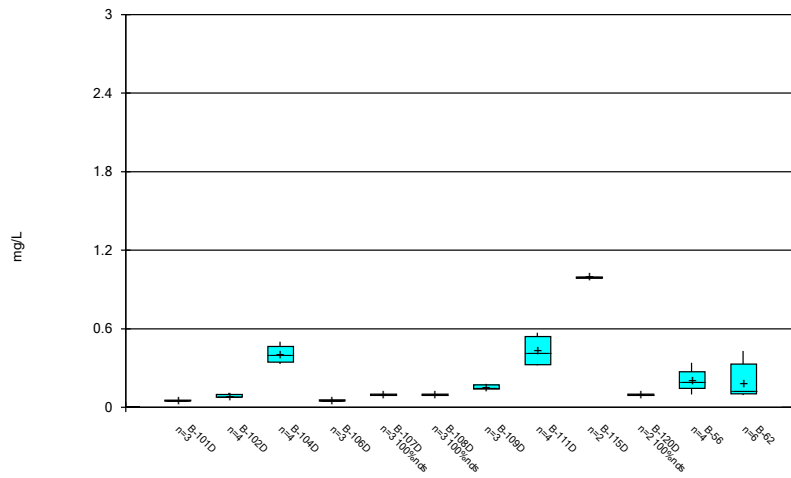
Constituent: Fluoride, total Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



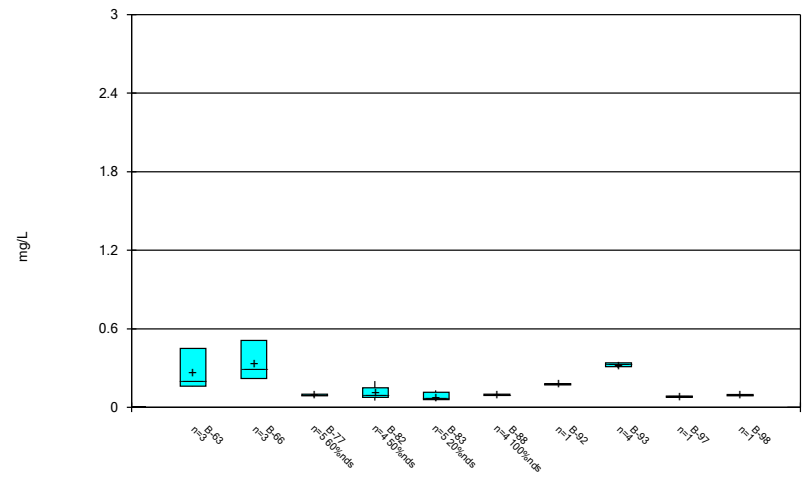
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Box & Whiskers Plot



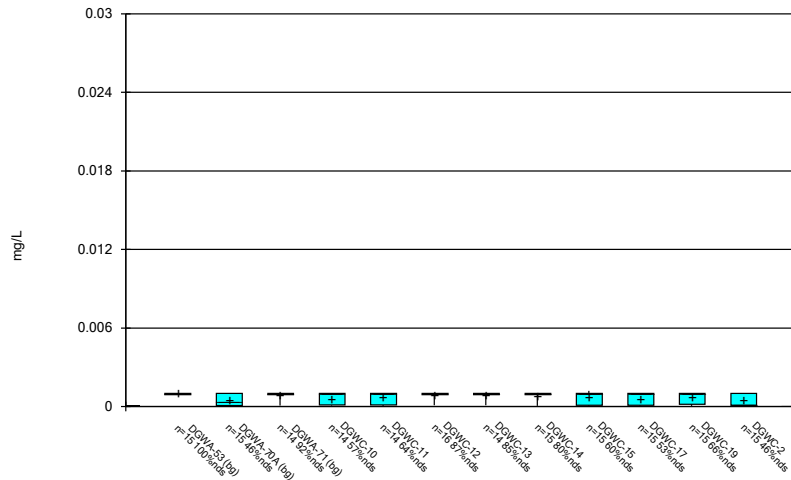
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Box & Whiskers Plot



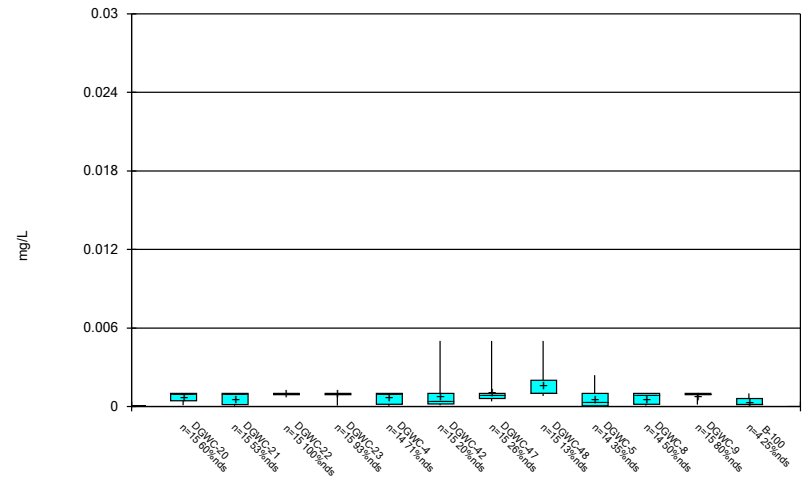
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Box & Whiskers Plot



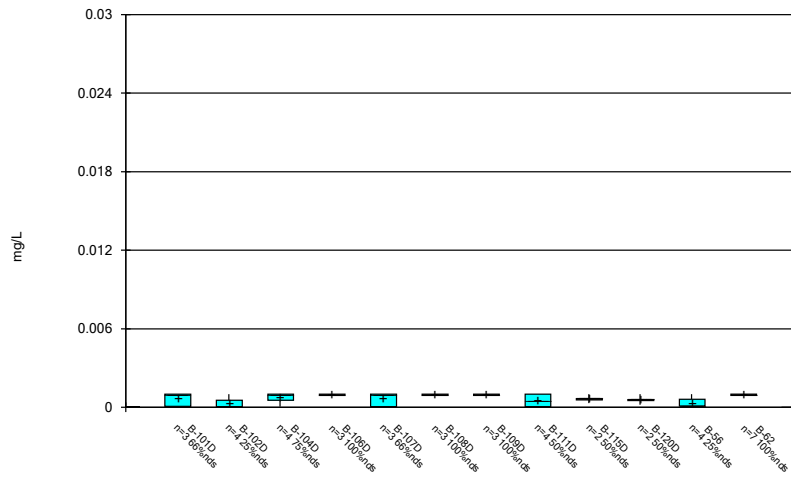
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Box & Whiskers Plot



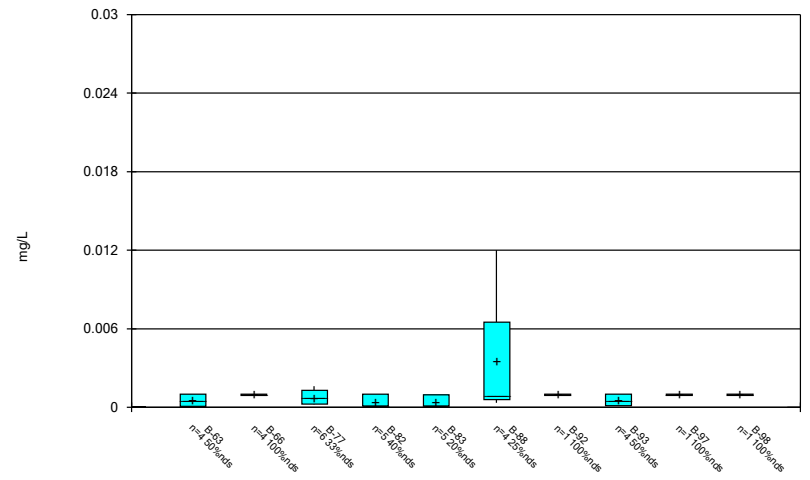
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



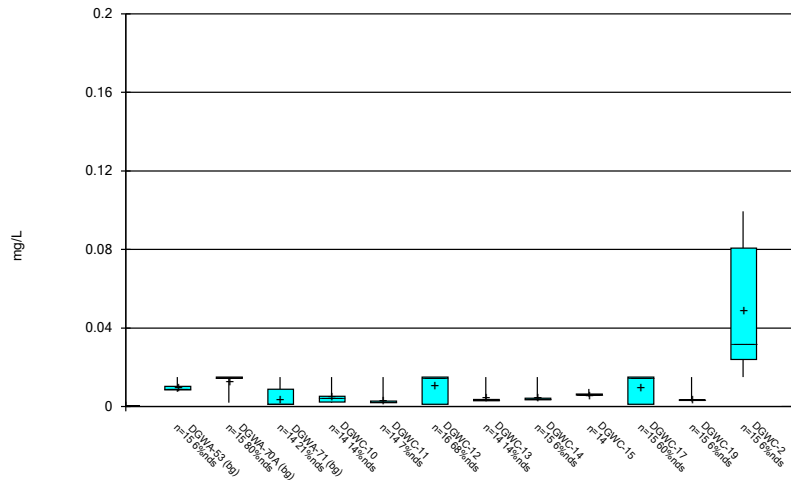
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



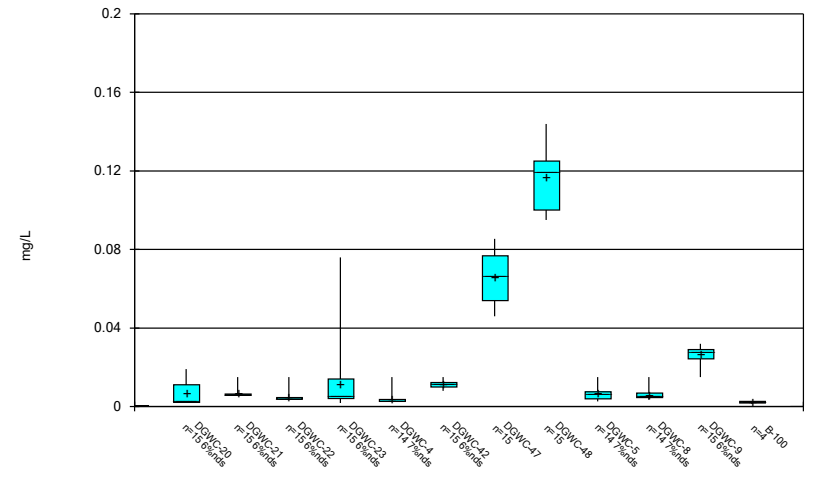
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



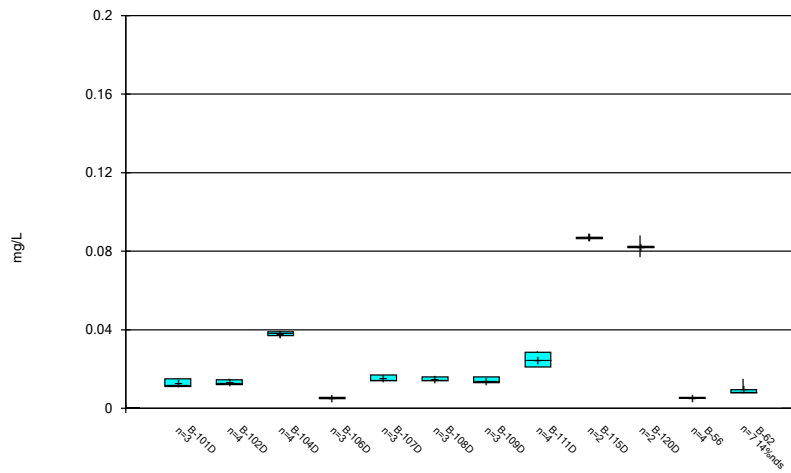
Constituent: Lithium Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



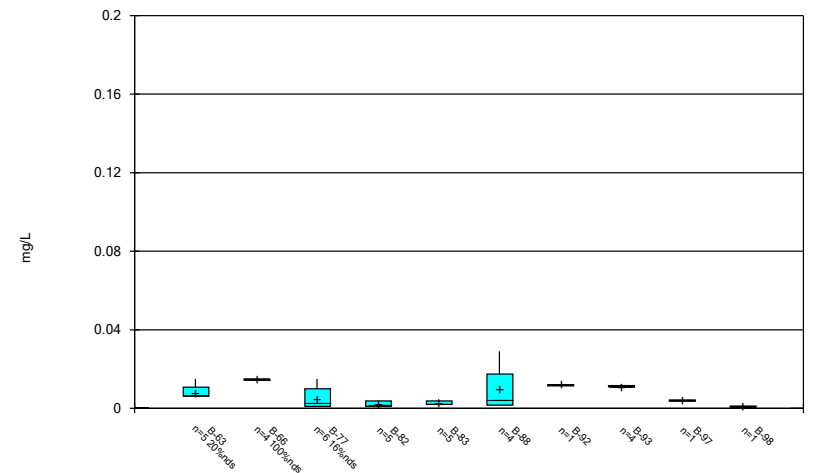
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Box & Whiskers Plot



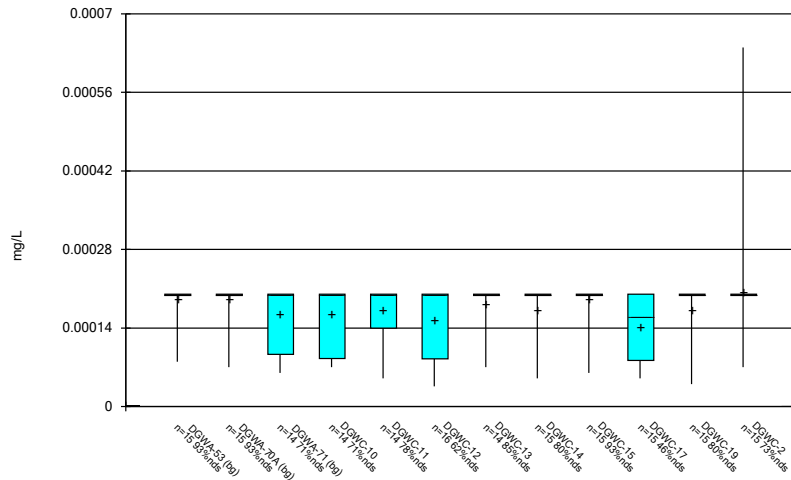
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



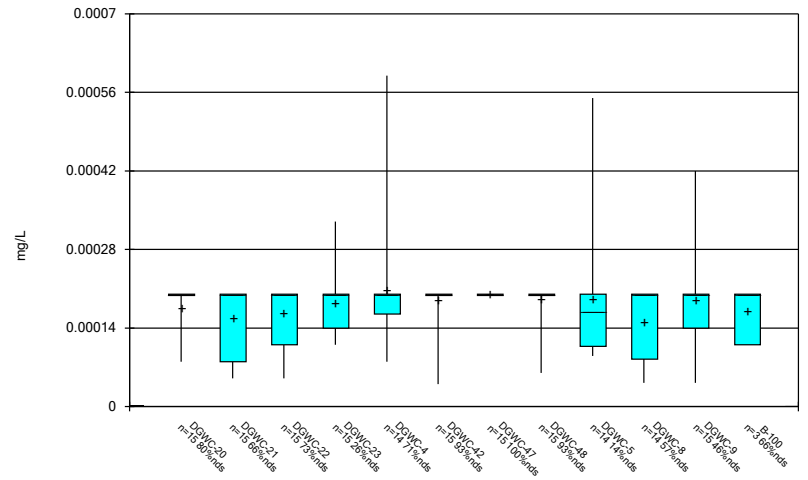
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



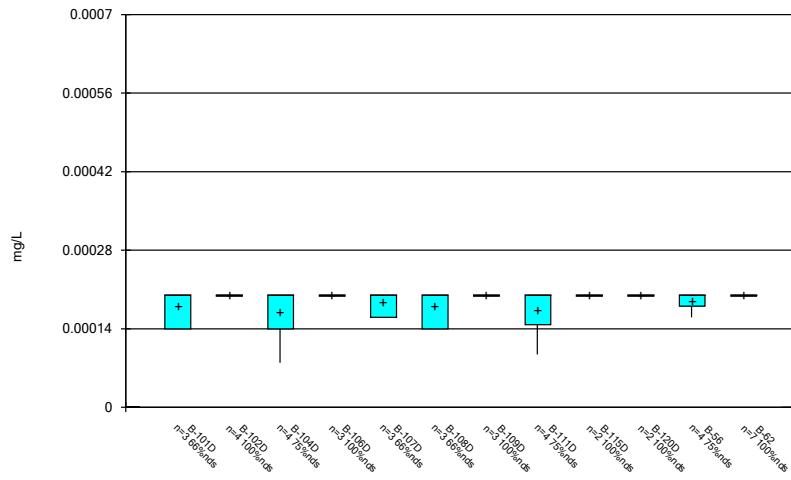
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



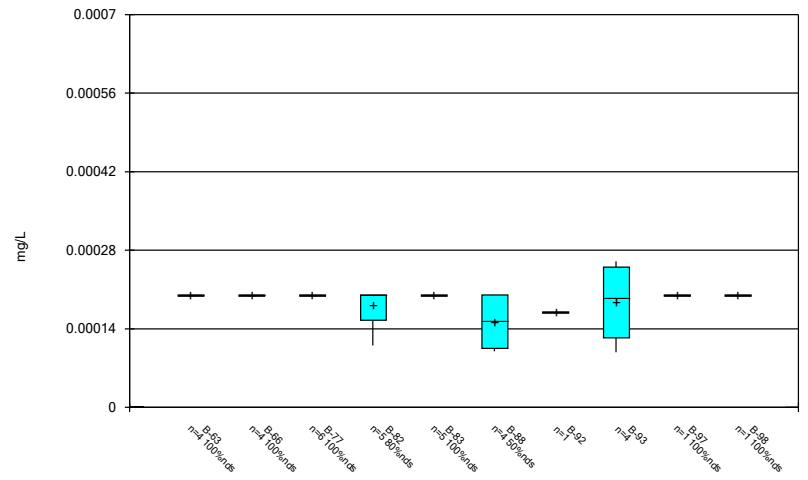
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



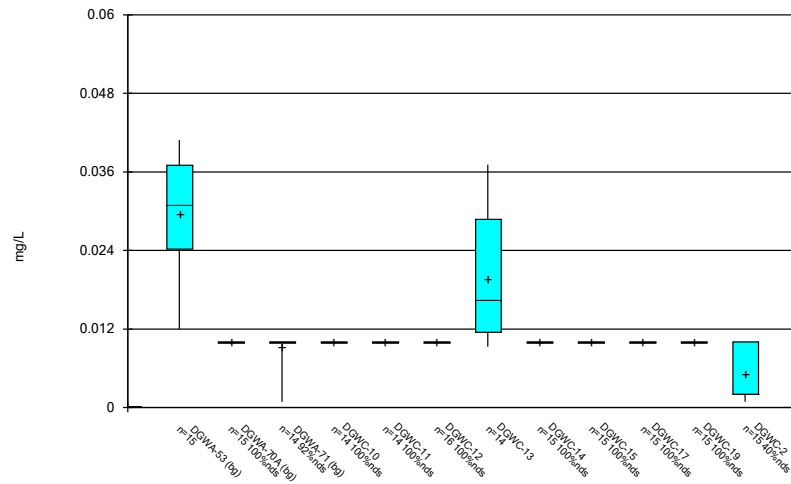
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



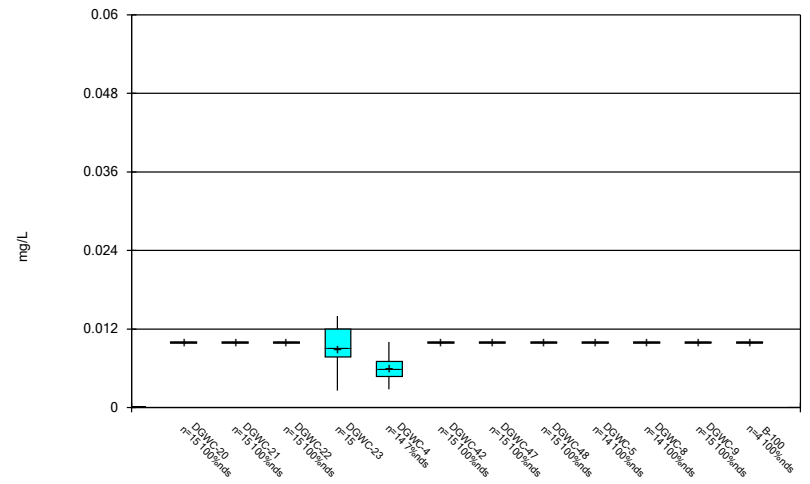
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



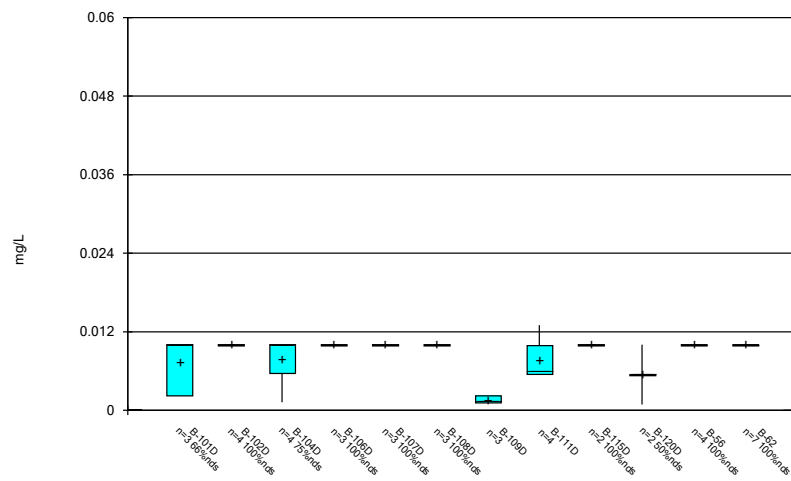
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



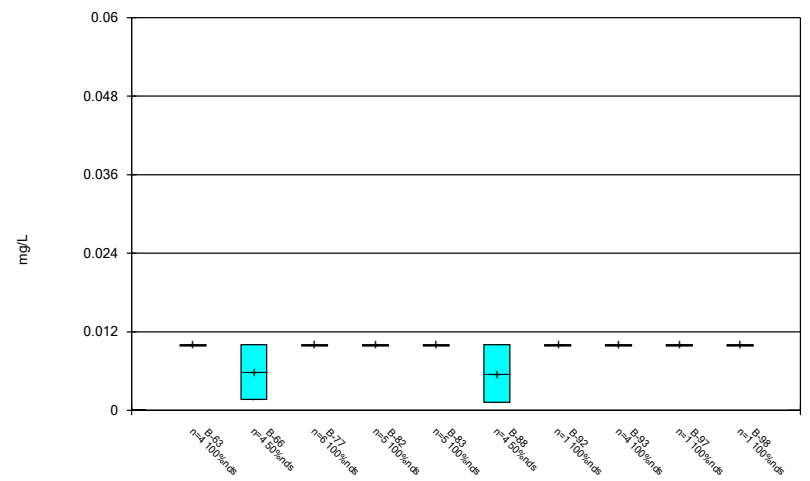
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



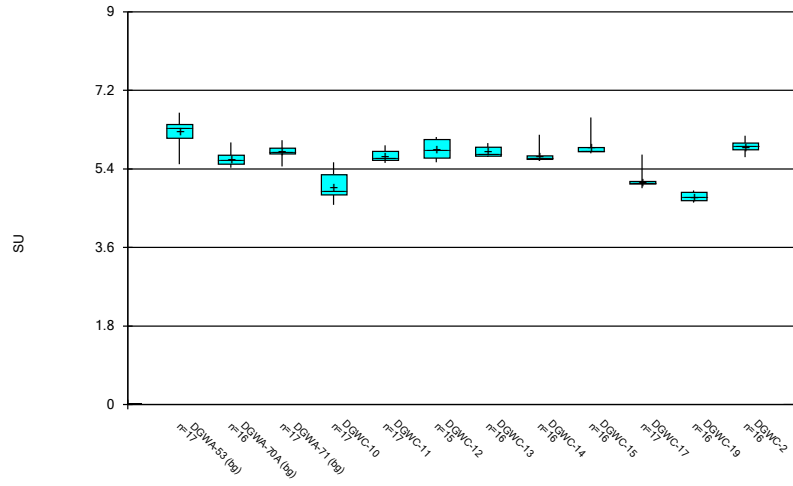
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



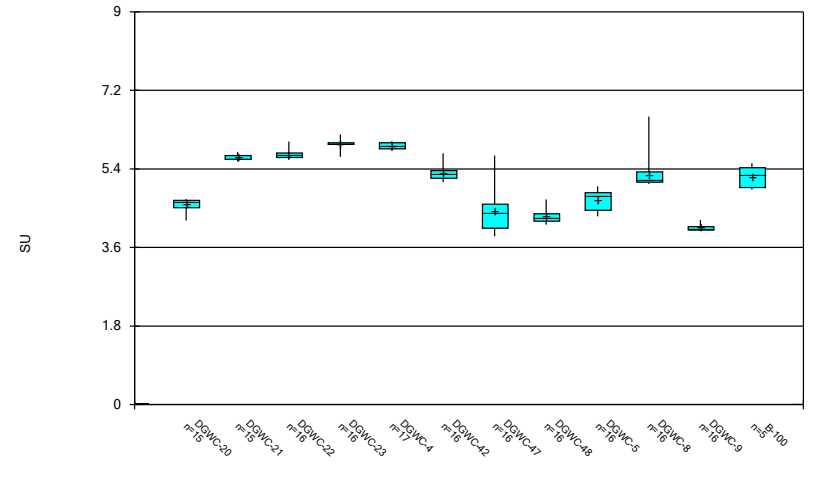
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



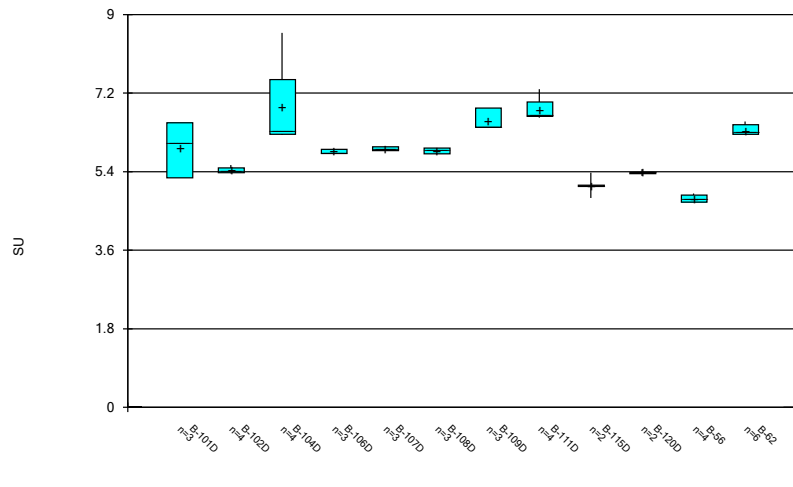
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



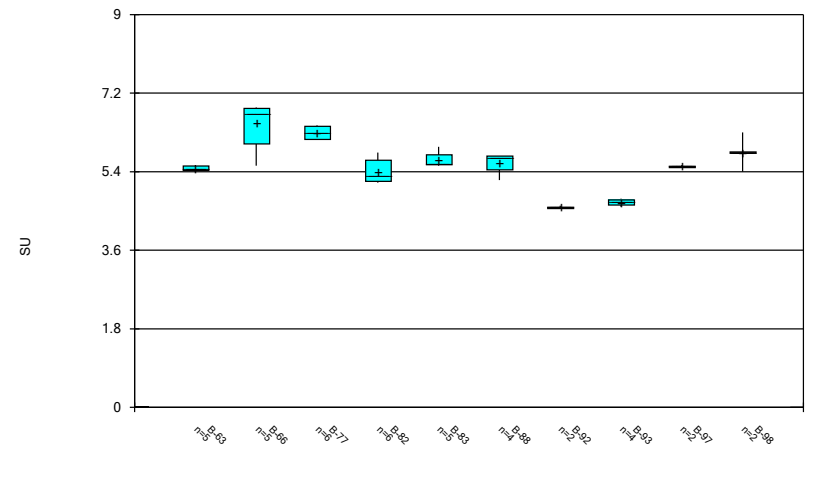
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



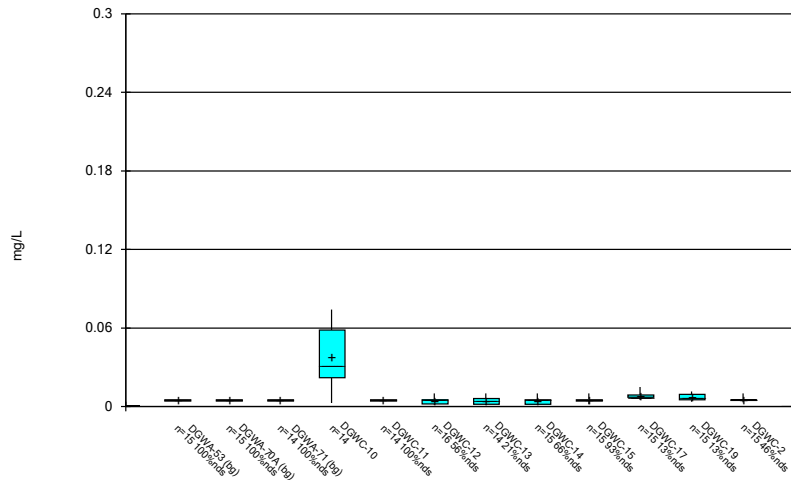
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



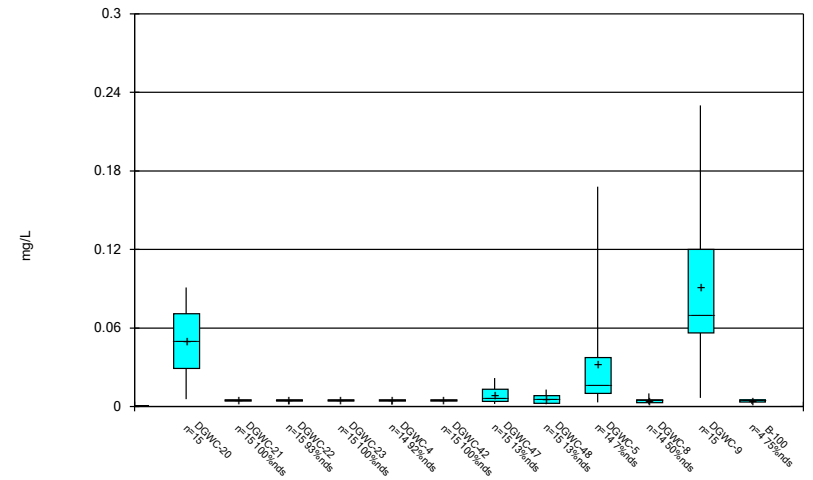
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



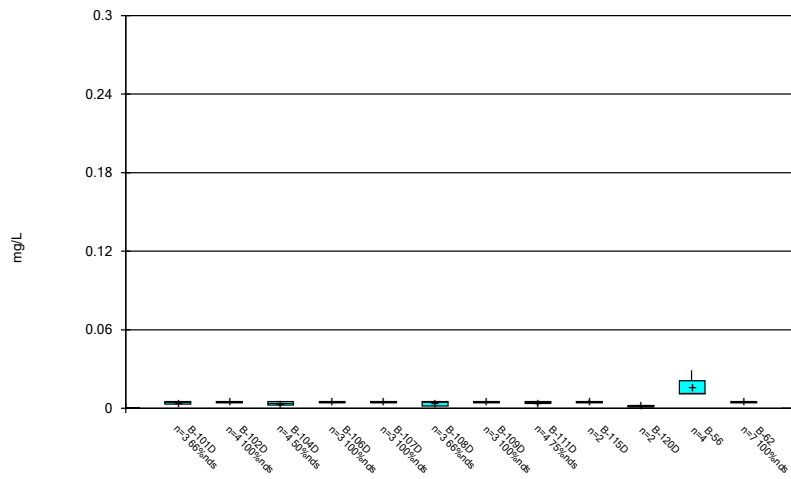
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



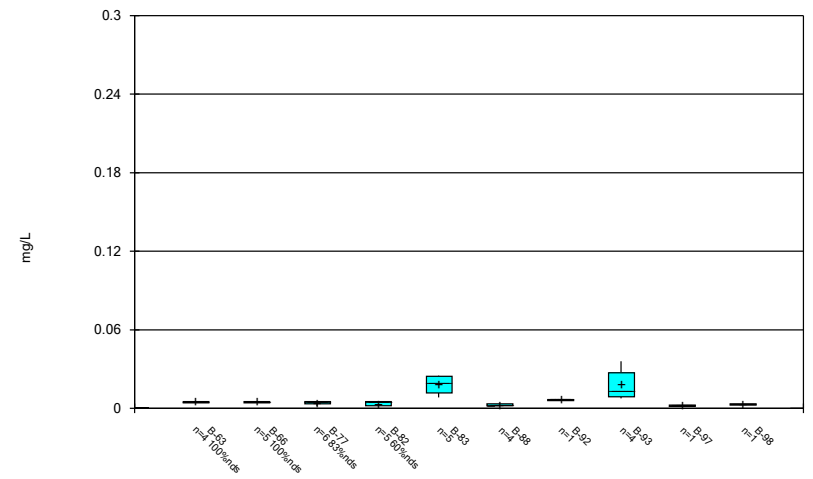
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



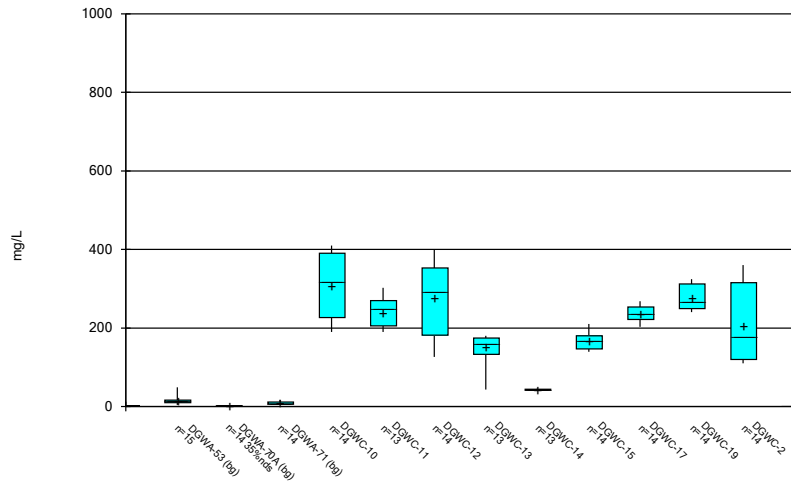
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



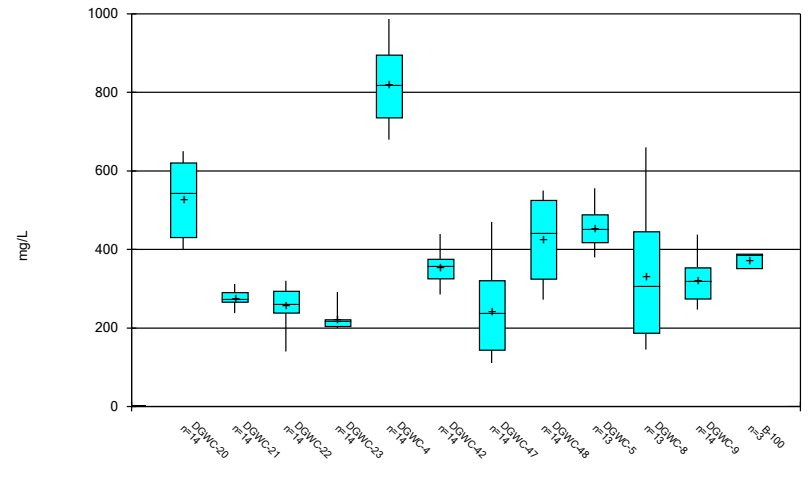
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



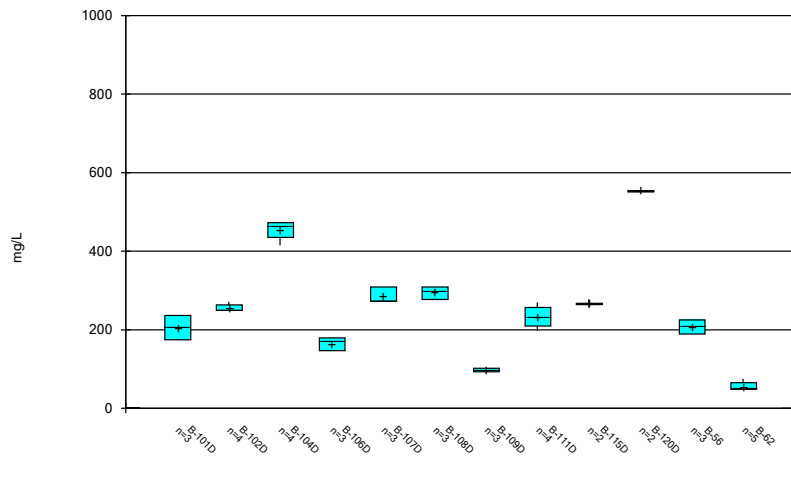
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



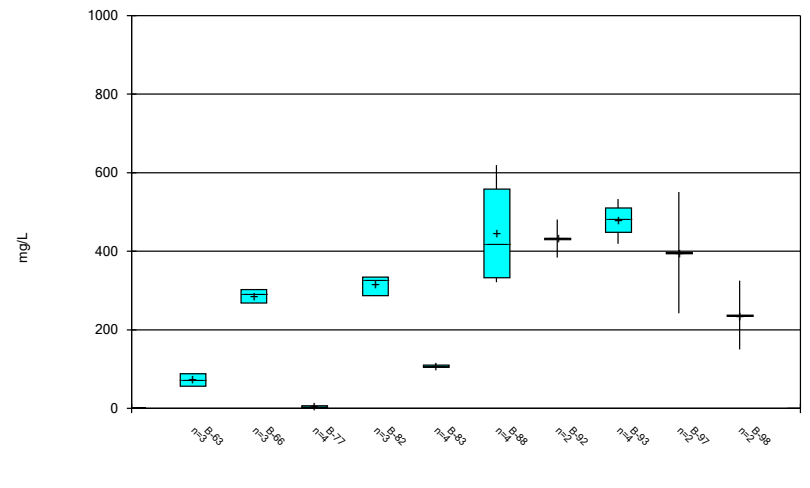
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



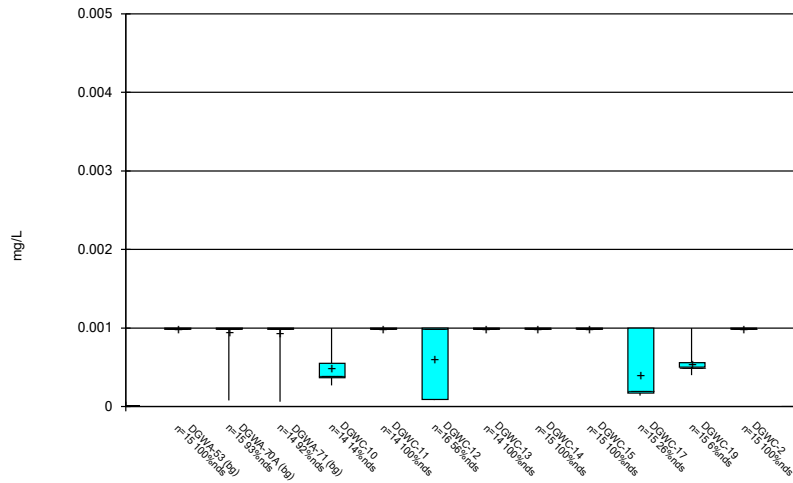
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



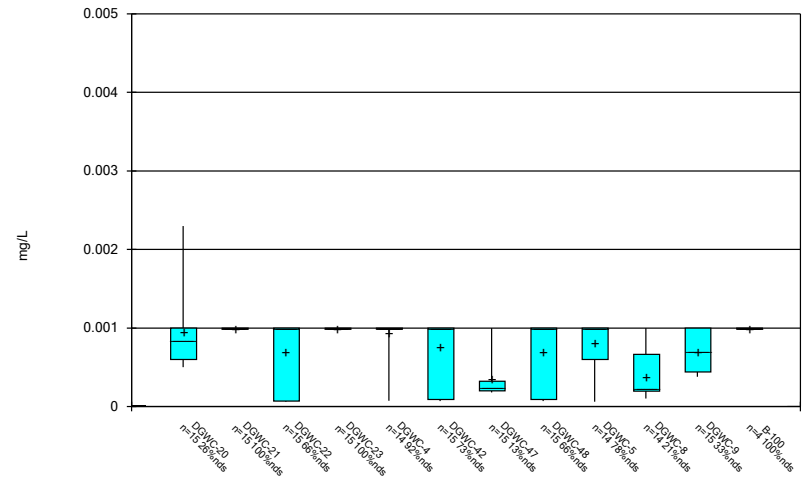
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



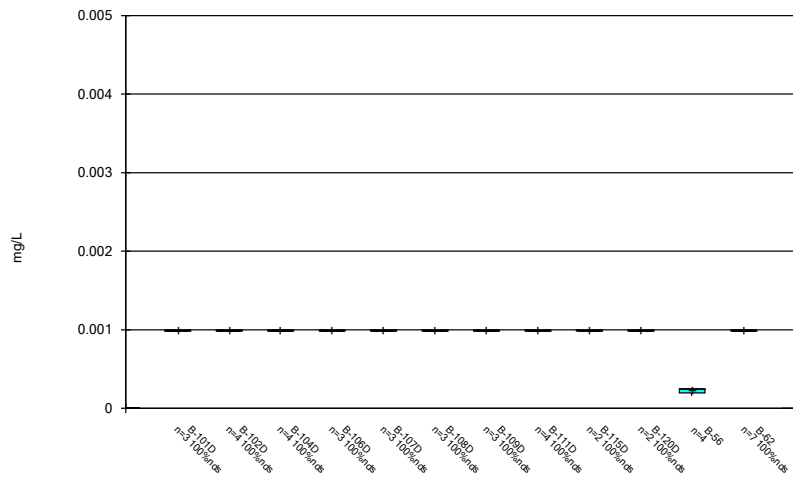
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



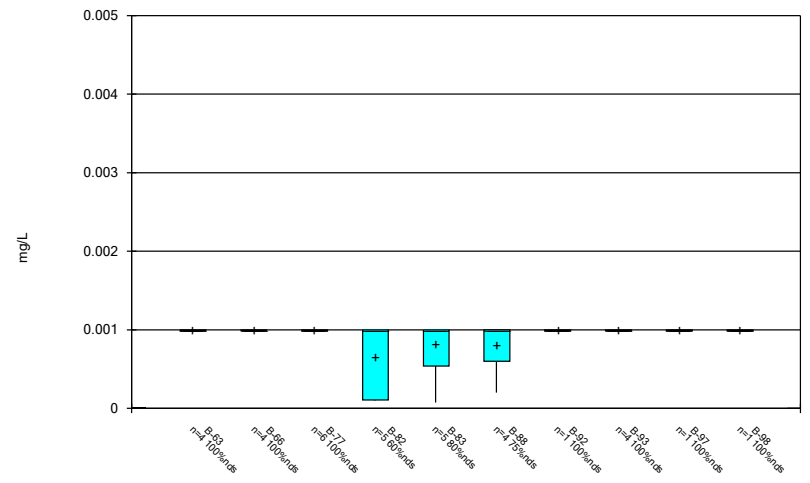
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



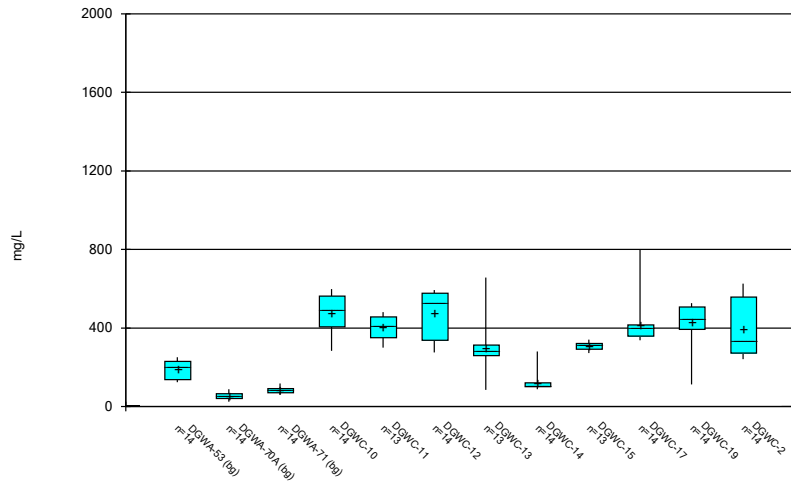
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



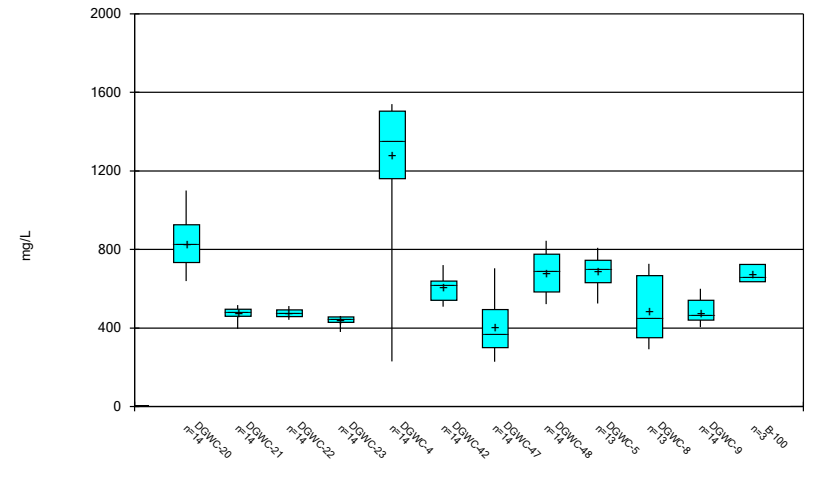
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



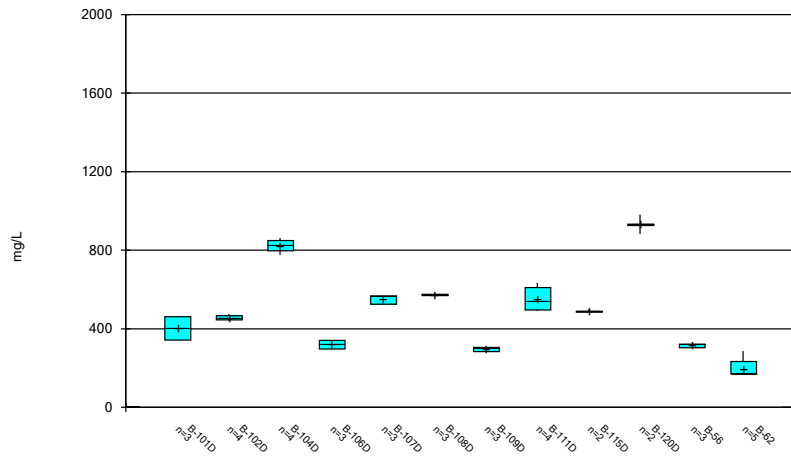
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



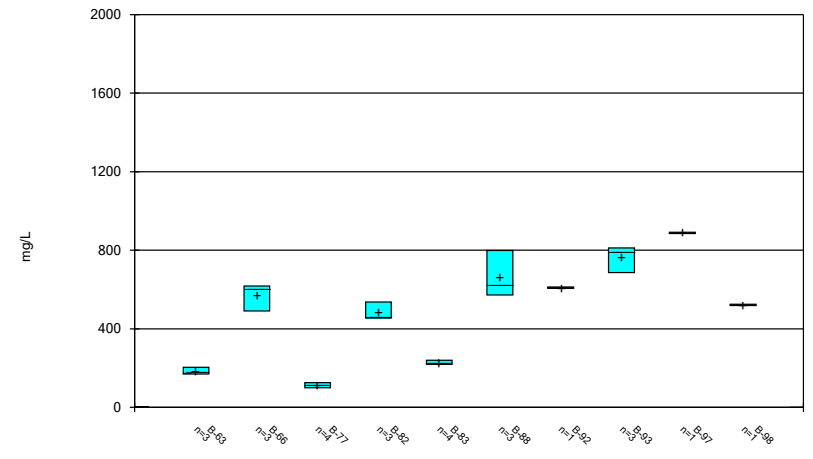
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:13 PM

	DGWC-5 Barium (mg/L)	DGWC-12 Chloride, Total (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride, total (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate as SO4 (mg/L)	DGWA-53 Total Dissolved Solids [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017							490 (O)	
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019		0.034 (O)						

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 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)	DGWC-10	0.13	n/a	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.07	n/a	9/13/2021	17.1	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.07	n/a	9/10/2021	10.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.07	n/a	9/10/2021	9.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.07	n/a	9/13/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.07	n/a	9/10/2021	9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/10/2021	2.2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/10/2021	0.47	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/10/2021	2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.646	5.155	9/10/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.646	5.155	9/13/2021	5.06	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.646	5.155	9/9/2021	4.82	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	DGWC-20	6.646	5.155	9/10/2021	4.67	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.646	5.155	9/13/2021	5.15	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.646	5.155	9/10/2021	4.1	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.646	5.155	9/10/2021	4.3	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.646	5.155	9/10/2021	4.89	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.646	5.155	9/13/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.646	5.155	9/10/2021	3.98	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	33.32	n/a	9/10/2021	271	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	33.32	n/a	9/9/2021	247	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	33.32	n/a	9/9/2021	126	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	33.32	n/a	9/9/2021	127	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	33.32	n/a	9/9/2021	42.3	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	33.32	n/a	9/9/2021	139	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	33.32	n/a	9/13/2021	222	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	33.32	n/a	9/9/2021	315	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 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)	DGWC-10	0.13	n/a	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/9/2021	0.08	No	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/9/2021	29.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/9/2021	38.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/9/2021	11.1	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/9/2021	34.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/13/2021	15.8	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2021	38.9	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/10/2021	24.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/13/2021	36	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.07	n/a	9/9/2021	3.3	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.07	n/a	9/9/2021	2.1	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride, Total (mg/L)	DGWC-42	5.07	n/a	9/13/2021	17.1	Yes	43	0.9633	0.2952	0	None	In(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-47	5.07	n/a	9/10/2021	2.4	No	43	0.9633	0.2952	0	None	In(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.07	n/a	9/10/2021	10.9	Yes	43	0.9633	0.2952	0	None	In(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.07	n/a	9/10/2021	9.9	Yes	43	0.9633	0.2952	0	None	In(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.07	n/a	9/13/2021	8.2	Yes	43	0.9633	0.2952	0	None	In(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.07	n/a	9/10/2021	9	Yes	43	0.9633	0.2952	0	None	In(x)	0.0003762	Param Inter 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/10/2021	2.2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	9/9/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	9/9/2021	0.099J	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	9/9/2021	0.083J	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	9/9/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	9/9/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	9/13/2021	0.063J	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	9/9/2021	0.18	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	9/9/2021	0.053J	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	9/10/2021	0.25	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	9/9/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	9/10/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	9/9/2021	0.084J	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	9/10/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	9/13/2021	0.1ND	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	9/10/2021	0.22	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/10/2021	0.47	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	9/10/2021	0.16	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	9/13/2021	0.069J	No	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/10/2021	2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.646	5.155	9/10/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-11	6.646	5.155	9/9/2021	5.59	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.646	5.155	9/9/2021	6.07	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.646	5.155	9/9/2021	5.69	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-14	6.646	5.155	9/9/2021	5.7	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.646	5.155	9/9/2021	5.83	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.646	5.155	9/13/2021	5.06	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.646	5.155	9/9/2021	4.82	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-2	6.646	5.155	9/9/2021	6	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.646	5.155	9/10/2021	4.67	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-21	6.646	5.155	9/9/2021	5.73	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.646	5.155	9/10/2021	5.65	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.646	5.155	9/9/2021	6	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.646	5.155	9/10/2021	5.83	No	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.646	5.155	9/13/2021	5.15	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.646	5.155	9/10/2021	4.1	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.646	5.155	9/10/2021	4.3	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.646	5.155	9/10/2021	4.89	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.646	5.155	9/13/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.646	5.155	9/10/2021	3.98	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	33.32	n/a	9/10/2021	271	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	33.32	n/a	9/9/2021	247	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	33.32	n/a	9/9/2021	126	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	33.32	n/a	9/9/2021	127	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	33.32	n/a	9/9/2021	42.3	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	33.32	n/a	9/9/2021	139	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	33.32	n/a	9/13/2021	222	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	33.32	n/a	9/9/2021	315	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2

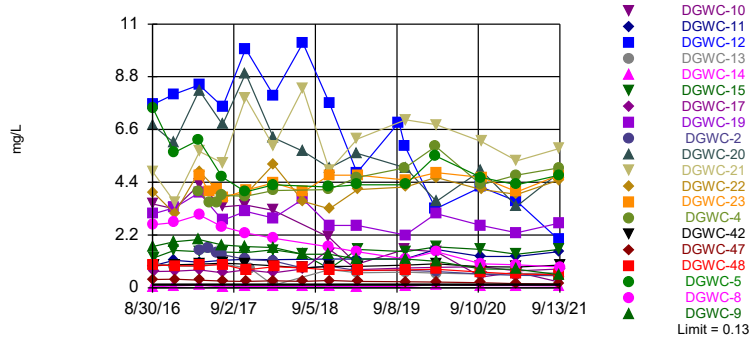
Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	299.2	n/a	9/9/2021	275	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	299.2	n/a	9/9/2021	246	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	299.2	n/a	9/9/2021	99	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	299.2	n/a	9/9/2021	292	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	299.2	n/a	9/9/2021	260	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	299.2	n/a	9/10/2021	274	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit
Interwell Non-parametric

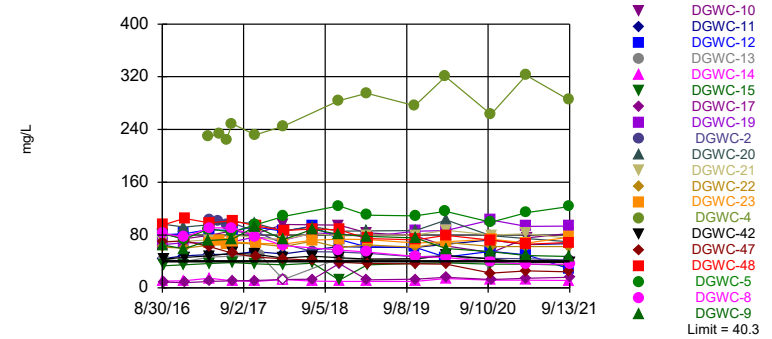


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 26.83% NDs. Annual per-constituent alpha = 0.04021. Individual comparison alpha = 0.001025 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-48...

Prediction Limit
Interwell Non-parametric

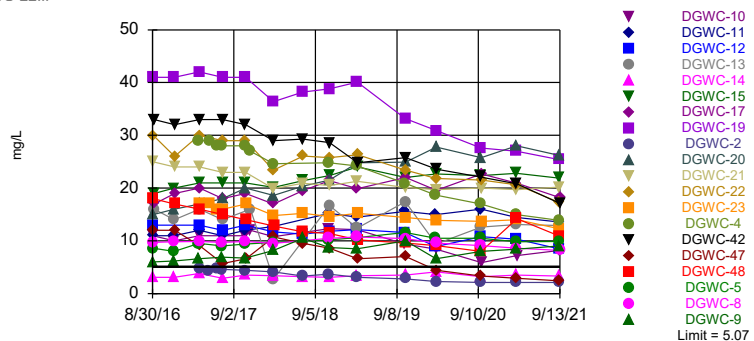


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 4.878% NDs. Annual per-constituent alpha = 0.04021. Individual comparison alpha = 0.001025 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22...

Prediction Limit
Interwell Parametric

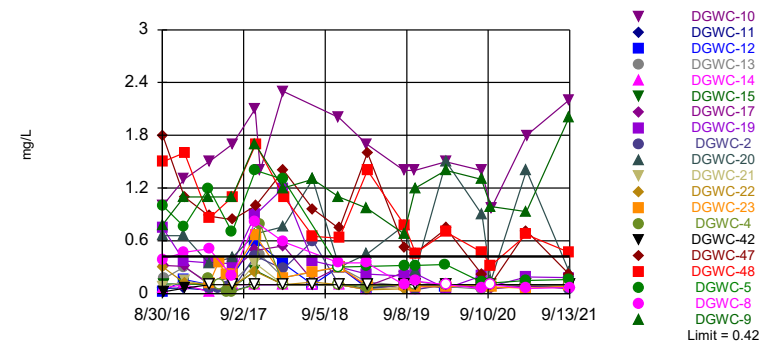


Background Data Summary (based on natural log transformation): Mean=0.9633, Std. Dev.=0.2952, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.923. Kappa = 2.236 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-48, DGWC-9

Prediction Limit
Interwell Non-parametric

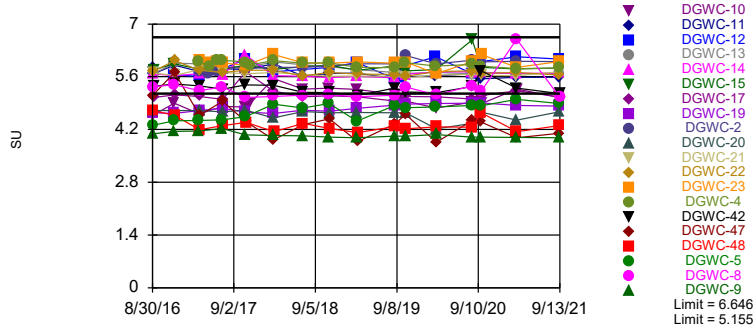


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 52.08% NDs. Annual per-constituent alpha = 0.03068. Individual comparison alpha = 0.0007788 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9

Prediction Limit
Interwell Parametric

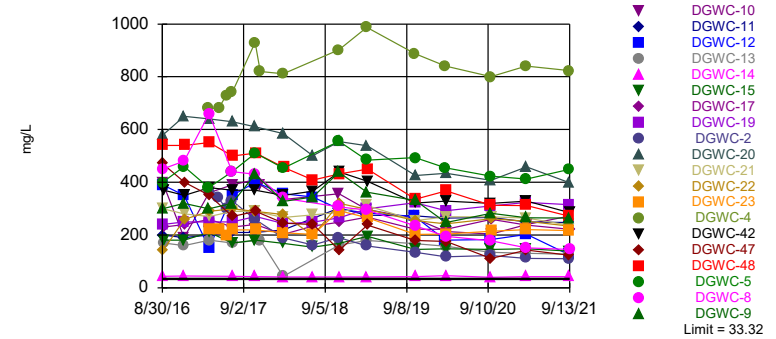


Background Data Summary: Mean=5.9, Std. Dev.=0.3378, n=50. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9448, critical = 0.935. Kappa = 2.208 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20...

Prediction Limit
Interwell Parametric

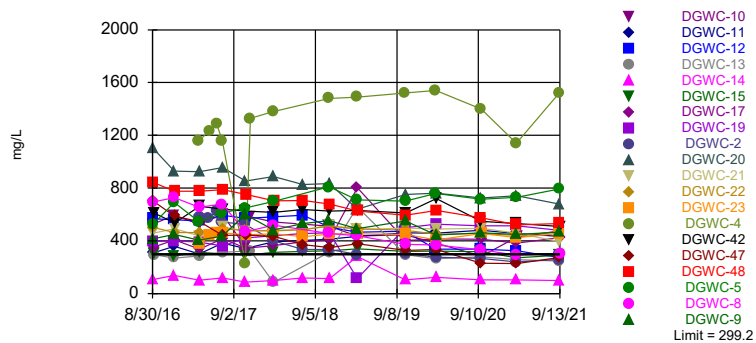


Background Data Summary (based on square root transformation): Mean=2.563, Std. Dev.=1.435, n=43, 11.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9331, critical = 0.923. Kappa = 2.236 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-42...

Prediction Limit
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.572, Std. Dev.=0.9447, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.933, critical = 0.922. Kappa = 2.24 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
3/2/2021			3.4		1.4	0.58			
3/3/2021	0.57	3.9		5.3			0.87	0.71	
3/4/2021									
3/12/2021									
9/8/2021									<0.04
9/9/2021				5.8	1.6	0.62			
9/10/2021	0.55	4.5	4.8						
9/13/2021							0.95	0.78	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWA-53 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.0067 (J)	4.01	0.0612		
3/29/2017					
3/30/2017				4.68	1.56
3/31/2017					
5/11/2017			0.0805		1.65
5/12/2017		3.58		4.03	
5/15/2017	0.0073 (J)				
6/15/2017	<0.04	3.58	0.0725	4.11	1.44
6/16/2017					
7/11/2017	<0.04	3.85			1.39
7/12/2017			0.0735	3.74	
7/13/2017					
8/8/2017	<0.04				
10/24/2017	0.0082 (J)	3.82	0.077		1.18
10/25/2017					
10/26/2017				4.07	
11/15/2017					
2/27/2018	0.0062 (J)	4.06			1.12
2/28/2018					
3/1/2018				4.37	
3/2/2018					
3/8/2018			0.13 (J)		
7/11/2018					0.82
7/12/2018			0.076	4	
11/6/2018	<0.04 (J)	4.1			0.9
11/7/2018			0.073		
11/8/2018				4.7	
3/12/2019	0.0073 (J)	4.6			0.72
3/13/2019			0.08		
3/14/2019				4.7	
9/17/2019					
10/15/2019	<0.04	5			
10/16/2019			0.059		
10/17/2019					0.73
10/18/2019				4.5	
3/2/2020	0.0055 (J)	5.9			
3/3/2020					0.68
3/4/2020				4.8	
3/9/2020			0.08 (J)		
9/22/2020	<0.04	4.3	0.056 (J)		
9/23/2020					0.57
9/24/2020				4.6	
3/1/2021	<0.04	4.7			

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWA-53 (bg)	DGWC-23	DGWC-2
3/2/2021					0.52
3/3/2021				4	
3/4/2021					
3/12/2021			0.064		
9/8/2021					
9/9/2021	<0.04		0.065	4.7	0.51
9/10/2021		5			
9/13/2021					

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-14	DGWC-5	DGWC-11	DGWC-12	DGWC-47	DGWC-48
8/30/2016	82.7	64.9							
8/31/2016			81.7	9.95	82.6	44.2			
9/1/2016							80.6	69.3	95.1
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	74.2	10.4	73.9	48.3			
12/7/2016							82.1		
12/8/2016								71.1	105
3/28/2017		71.6			89.1				
3/29/2017	90.5		79.5	14.4		50.5	88.3		
3/30/2017									98.6
3/31/2017								62.6	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	91.1	73.7			84.6				
7/12/2017			86.3	10.5		50.8	87		
7/13/2017								52.5	102
8/8/2017									
10/24/2017	78.1	92.5	81.5			55			
10/25/2017				9.67	95.6		92.1		
10/26/2017								46.7	94
11/15/2017									
2/27/2018	64.2	73.1	96.2	<25	108	51.4	85.6		
2/28/2018									
3/1/2018								44.2	
3/2/2018									86.6
3/8/2018									
7/11/2018		88.5		9.9			93.6		
7/12/2018								41.6	89.1
11/6/2018	57	81.1	94.8		124	62.6			
11/7/2018				9.7			73.3	38.6	88
11/8/2018									
3/12/2019	54.3	78.1	83.5		110	61.4	62.1		
3/13/2019				9.7					
3/14/2019								36.6	74.6
10/15/2019			79.1			61.2	61.4		
10/16/2019	47.3			9.4	109				
10/17/2019		75.6						36.2	
10/18/2019									72.7
3/2/2020					116	65.8	46.5		
3/3/2020	46	59.5	63.6	14					
3/4/2020								36	79.7
3/9/2020									
9/22/2020		54.7		11.6	99.2	72.7	55.4		
9/23/2020	39.3							22.3	72.2
9/24/2020			53.1						
3/1/2021									
3/2/2021	35.6	48.8		11.4	114	65.3			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	65.6								
9/2/2016		96.3	61.6	70.2					
9/6/2016					44	33.6			
9/7/2016							8.61	43.6	
12/6/2016									
12/7/2016	68.3	91.9			39.8	34.7			
12/8/2016			60.1	70.1			7.92	45.8	
3/28/2017									229
3/29/2017	68	95.7	64.7						
3/30/2017				72.5	46.3	36.9	9.56		
3/31/2017								48.3	
5/11/2017									
5/12/2017									233
5/15/2017									
6/15/2017									224
6/16/2017									
7/11/2017									249
7/12/2017	70	100		80.4	47.8	38.4	10.4		
7/13/2017			67.2					52.3	
8/8/2017									
10/24/2017									232
10/25/2017	77	97.3	66.8	75.6		36.2	10.9	50.9	
10/26/2017									
11/15/2017					49.3				
2/27/2018									245
2/28/2018	72	86.3	62.3	73.2	<25	35	<25	45.1	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	82.7	92.4		82.3		37.5	13 (J)	47.8	
7/12/2018			71						
11/6/2018									284
11/7/2018	81.7	85.9	60.9	78.5	44.8	11.4	37	45.5	
11/8/2018									
3/12/2019									295
3/13/2019	76.9	86.4		79.9	42.1		11.9 (J)		
3/14/2019			64.8			34.7		43.5	
10/15/2019									276
10/16/2019	85.7				43.8				
10/17/2019		86.9		79.8		37		44.1	
10/18/2019			61.7				12.9		
3/2/2020									320
3/3/2020	86.8		68.7	87.4	49.3	37.8			
3/4/2020		103					15.8	48.8	
3/9/2020									
9/22/2020	103	79.2						43.8	263
9/23/2020					39	35.6			
9/24/2020			62.6	80			12.7		
3/1/2021									322
3/2/2021	93.2	74.7			40.5	36			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
3/3/2021			62.3	82.1			14.3	38.8	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021	93.6			75.3	38.2	34.4			
9/10/2021		69.8	62.3						285
9/13/2021							15.8	38.9	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	30.8	5.14	8.31		
3/29/2017					
3/30/2017				68.1	103
3/31/2017					
5/11/2017	35.8				102
5/12/2017			8.04	71.1	
5/15/2017		6.5			
6/15/2017	36	5.38		65.9	96.2
6/16/2017			7.66		
7/11/2017		5.96	7.71		98.4
7/12/2017	40.3			70	
7/13/2017					
8/8/2017		5.2			
10/24/2017	30.3	4.93	6.86		86
10/25/2017					
10/26/2017				67.2	
11/15/2017					
2/27/2018		<25	<25		66.7
2/28/2018					
3/1/2018				66.5	
3/2/2018					
3/8/2018	39.8				
7/11/2018					55
7/12/2018	34.7			72	
11/6/2018		5.5	5.7		54.5
11/7/2018	28.6				
11/8/2018				73.5	
3/12/2019		5.1	5.5		52.2
3/13/2019	26.7				
3/14/2019				73.2	
10/15/2019		5.1	5.1		
10/16/2019	17.7				
10/17/2019					47.2
10/18/2019				67.7	
3/2/2020		5.3	5.8		
3/3/2020					48.4
3/4/2020				69.8	
3/9/2020	23.7				
9/22/2020	15.5	5	5.4		
9/23/2020					44.4
9/24/2020				73.7	
3/1/2021		4.1	5.9		
3/2/2021					44

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/3/2021				68.1	
3/4/2021					
3/12/2021	18.4				
9/8/2021			6.1		
9/9/2021	18.3	5.3		76.4	42
9/10/2021					
9/13/2021					

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-11	DGWC-5	DGWC-10	DGWC-48	DGWC-12	DGWC-47
8/30/2016	9.7	6							
8/31/2016			3.1	11	8.6	11			
9/1/2016							18	13	12
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	3.1	11	8	10			
12/7/2016								20 (O)	
12/8/2016							17		12
3/28/2017		6.6			9.5				
3/29/2017	9.9		3.8	12		11		13	
3/30/2017							16		
3/31/2017									9.1
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9			9				
7/12/2017			2.9	11		11		12	
7/13/2017							15		5.7
8/8/2017									
10/24/2017	9.9	6.7		12		11			
10/25/2017			3.5		9.4			13	
10/26/2017							14		6.6
11/15/2017						12			
2/27/2018	9.5	8.2	3.4	12.7	9.7	10.8		11.7	
2/28/2018									
3/1/2018									10.7
3/2/2018							12.8		
3/8/2018									
7/11/2018		10.5	3.2					11.3	
7/12/2018							11.7		9.5
11/6/2018	10.5	8.7		15.2	10.2	12.3			
11/7/2018			3.1				11.4	11.8	8.6
11/8/2018									
3/12/2019	10.7	8.5		14.5	10.6	12.1		12.1	
3/13/2019			3.4						
3/14/2019							10.2		6.6
10/15/2019				15.6		9.4		11.6	
10/16/2019	10.4		3.5		11.6				
10/17/2019		10							7
10/18/2019							9.6		
3/2/2020				15	10.5			8.9	
3/3/2020	9.6	6.6	4.1			8.4			
3/4/2020							9.1		4.4
3/9/2020									
9/22/2020		8	3.2	16	10.5			10.8	
9/23/2020	9.1						8		3.3
9/24/2020						5.9			
3/1/2021									
3/2/2021	8.6	8.4	3.5	14.4	9.8				

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	41								
9/2/2016		25	30	15					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016	41			16	14	20			
12/8/2016		24	26				19	32	
3/28/2017									3.7
3/29/2017	42		30	17					
3/30/2017		24			16	21	20		
3/31/2017								33	
5/11/2017									2.3
5/12/2017									
5/15/2017									
6/15/2017									2.6
6/16/2017									
7/11/2017									
7/12/2017	41	23		18	14	21	18		2.3
7/13/2017			29					33	
8/8/2017									
10/24/2017									2.7
10/25/2017	41	23	29	20		21	19	32	
10/26/2017									
11/15/2017					16				2.2
2/27/2018									
2/28/2018	36.4	19.9	23.4	18.6	2.7	20.1	17	29	
3/1/2018									
3/2/2018									
3/8/2018									2.4
7/11/2018	38.2	20.9		20.4		21.4	19.5	29.3	
7/12/2018			26.1						2.2
11/6/2018									
11/7/2018	38.8	20.5	25.8	21.5	16.7	22.4	21.4	28.6	2.3
11/8/2018									
3/12/2019									
3/13/2019	40.1	21.3		24.8	12.4		19.9		3.6
3/14/2019			26.3			24		24.8	
10/15/2019									
10/16/2019	33.2				17.4				2
10/17/2019		20.1		24.9		22		25.8	
10/18/2019			23.4				22		
3/2/2020									
3/3/2020	30.9	19.7	21.8		9.4	22.7			
3/4/2020				27.8			19.6	23.6	
3/9/2020									1.8
9/22/2020	27.6			25.8				22.1	1.6
9/23/2020					12.6	22.4			
9/24/2020		20	21.5				22.7		
3/1/2021									
3/2/2021	27			28	13.1	22.8			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
3/3/2021		19.7	20.6				20.9	20.8	
3/4/2021									
3/12/2021									2
9/8/2021									
9/9/2021	25.4	20.2			12.9	21.9			1.8
9/10/2021			17.3	26.2					
9/13/2021							18.2	17.1	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	29	3.6	3.8		
3/29/2017					
3/30/2017				17	4.8
3/31/2017					
5/11/2017					4.4
5/12/2017	29	3.8		17	
5/15/2017			2.2		
6/15/2017	28		2	16	4.8
6/16/2017		3.4			
7/11/2017	28	3.1	2.1		4.6
7/12/2017				16	
7/13/2017					
8/8/2017			2.2		
10/24/2017	28	3.2	2.4		4.4
10/25/2017					
10/26/2017				17	
11/15/2017	27	3.1			
2/27/2018	24.6	3.2	2.5		4.1
2/28/2018					
3/1/2018				14.8	
3/2/2018					
3/8/2018					
7/11/2018					3.3
7/12/2018				15.2	
11/6/2018	24.8	2.6	2.3		3.7
11/7/2018					
11/8/2018				14.6	
3/12/2019	24.2	3.3	2.5		3.1
3/13/2019					
3/14/2019				15.2	
10/15/2019	20.9	3.3	2.2		
10/16/2019					
10/17/2019					2.8
10/18/2019				14.4	
3/2/2020	18.7	3	1.9		
3/3/2020					2.3
3/4/2020				13.9	
3/9/2020					
9/22/2020	17	5.2	1.9		
9/23/2020					2.1
9/24/2020				13.7	
3/1/2021	15	3.9	1.9		
3/2/2021					2.1

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
3/3/2021				14	
3/4/2021					
3/12/2021					
9/8/2021		5.9			
9/9/2021			1.9	12.3	2.1
9/10/2021	13.9				
9/13/2021					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-19	DGWC-12	DGWC-47
8/30/2016	0.39	0.78							
8/31/2016			1	1	0.06 (J)	0.06 (J)			
9/1/2016							0.75	0.02 (J)	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	1.1	0.76	1.3	0.06 (J)	0.1 (J)			
12/7/2016							0.37	0.16 (J)	
12/8/2016									1.1
3/28/2017		1.1	1.2						
3/29/2017	0.51			1.5	0.04 (J)	0.02 (J)	0.35	0.1 (J)	
3/30/2017									
3/31/2017									0.88
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	0.2 (J)	1.1	0.7						
7/12/2017				1.7	0.03 (J)	<0.1	0.34	0.2 (J)	
7/13/2017									0.84
8/8/2017									
10/24/2017	0.82	1.7		2.1	<0.1				
10/25/2017			1.4			<0.1	0.9	0.6	
10/26/2017									1
11/15/2017				1.4					
2/27/2018	0.59	1.2	1.3	2.3	<0.1	<0.1		0.34	
2/28/2018							1.2		
3/1/2018									1.4
3/2/2018									
3/8/2018									
7/11/2018		1.3				<0.1	0.37	<0.1	
7/12/2018									0.96
11/6/2018	0.35	1.1	<0.3 (J)	2	<0.1				
11/7/2018						<0.1	<0.3 (J)	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.35	0.97	0.31	1.7	0.052 (J)			0.065 (J)	
3/13/2019						0.042 (J)	0.22 (J)		
3/14/2019									1.6
8/27/2019		0.68	0.32	1.4	<0.1	<0.1		<0.1	
8/28/2019	0.098 (J)						0.2		
8/29/2019									0.52
10/15/2019				1.4	<0.1			<0.1	
10/16/2019	0.14 (J)		0.32			0.052 (J)	0.23 (J)		
10/17/2019		1.2							0.46
10/18/2019									
3/2/2020			0.33		0.064 (J)			0.071 (J)	
3/3/2020	<0.1	1.4		1.5		<0.1	0.056 (J)		
3/4/2020									0.74
3/9/2020									
8/11/2020		1.3		1.4	<0.1	<0.1	0.2	<0.1	
8/12/2020	0.056 (J)		0.13						0.22

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	1.5								
9/2/2016		0.66	0.07 (J)	0.3					
9/6/2016					0.17 (J)	0.11 (J)			
9/7/2016							0.02 (J)	0.32	
12/6/2016									
12/7/2016		0.66			0.3	0.11 (J)			
12/8/2016	1.6		0.14 (J)	0.12 (J)			0.06 (J)	0.31	
3/28/2017									0.17 (J)
3/29/2017		0.34		0.11 (J)					
3/30/2017	0.86		<0.1		0.12 (J)	<0.1		0.1 (J)	
3/31/2017							<0.1		
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									0.02 (J)
6/16/2017									
7/11/2017									0.02 (J)
7/12/2017		0.41	0.04 (J)		0.13 (J)	0.07 (J)		0.27 (J)	
7/13/2017	1.1			0.09 (J)			<0.1		
8/8/2017									
10/24/2017									<0.1
10/25/2017		0.68	0.34	0.25 (J)		0.26 (J)	<0.1	0.49	
10/26/2017	1.7								
11/15/2017					0.44				0.79
2/27/2018									<0.1
2/28/2018		0.76	<0.1	<0.1	0.18	<0.1	<0.1	0.54	
3/1/2018									
3/2/2018	1.1								
3/8/2018									
7/11/2018		1.3	<0.1			<0.1	<0.1	0.15 (J)	
7/12/2018	0.65			0.13 (J)					
11/6/2018									<0.1
11/7/2018	0.63	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.1	<0.1	<0.3 (J)	
11/8/2018									
3/12/2019									0.082 (J)
3/13/2019		0.45	0.043 (J)		0.13 (J)			0.084 (J)	
3/14/2019	1.4			0.042 (J)		0.057 (J)	<0.1		
8/27/2019								0.24 (J)	<0.1
8/28/2019					0.091 (J)	<0.1	<0.1		
8/29/2019	0.78	0.78	0.079 (J)	0.054 (J)					
10/15/2019									<0.1
10/16/2019					0.14 (J)				
10/17/2019		0.26 (J)	<0.1			0.079 (J)	<0.1		
10/18/2019	0.46			<0.1				0.086 (J)	
3/2/2020									<0.1
3/3/2020			<0.1	<0.1	0.078 (J)	<0.1			
3/4/2020	0.7	1.5					<0.1	<0.1	
3/9/2020									
8/11/2020									
8/12/2020					0.051 (J)				<0.1

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/13/2020	0.47	0.9				<0.1	<0.1		
8/14/2020			<0.1	<0.1				0.069 (J)	
9/22/2020		0.15					<0.1		<0.1
9/23/2020	0.32				0.058 (J)	<0.1			
9/24/2020			<0.1	<0.1				0.056 (J)	
3/1/2021									<0.1
3/2/2021		1.4			0.084 (J)	<0.1			
3/3/2021	0.67		<0.1	<0.1			<0.1	0.085 (J)	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			<0.1		0.083 (J)	<0.1			
9/10/2021	0.47	0.25		<0.1					<0.1
9/13/2021							<0.1	0.063 (J)	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.12 (J)	0.06 (J)			1.2 (O)
3/29/2017					
3/30/2017			0.12 (J)	0.06 (J)	
3/31/2017					
5/11/2017	0.07 (J)			0.06 (J)	
5/12/2017		<0.1	0.36		
5/15/2017					0.005 (J)
6/15/2017	0.19 (J)		0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017		0.008 (J)			
7/11/2017		0.007 (J)		0.04 (J)	0.06 (J)
7/12/2017	0.1 (J)		0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	0.06 (J)	<0.1		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	0.05 (J)	<0.1			
2/27/2018		<0.1		0.28	<0.1
2/28/2018					
3/1/2018			0.18		
3/2/2018					
3/8/2018	<0.1				
7/11/2018				0.6	
7/12/2018	0.071 (J)		0.25 (J)		
11/6/2018		<0.1		<0.1	<0.1
11/7/2018	<0.1				
11/8/2018			<0.3 (J)		
3/12/2019		<0.1		0.052 (J)	0.039 (J)
3/13/2019	0.13 (J)				
3/14/2019			0.092 (J)		
8/27/2019		<0.1		<0.1	<0.1
8/28/2019	0.42				
8/29/2019			0.095 (J)		
10/15/2019		<0.1			<0.1
10/16/2019	0.11 (J)				
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020		<0.1			<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020	0.1 (J)				
8/11/2020		<0.1		<0.1	<0.1
8/12/2020					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/13/2020	0.062 (J)		0.1		
8/14/2020					
9/22/2020	0.099 (J)	<0.1			<0.1
9/23/2020				<0.1	
9/24/2020			0.075 (J)		
3/1/2021		<0.1			<0.1
3/2/2021				<0.1	
3/3/2021			0.063 (J)		
3/4/2021					
3/12/2021	0.076 (J)				
9/8/2021		<0.1			
9/9/2021	0.099 (J)		0.084 (J)	0.053 (J)	<0.1
9/10/2021					
9/13/2021					

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-12	DGWC-4
8/11/2020								5.69	
8/12/2020					5.68				5.93
8/13/2020	4.36			6.58			5.34		
8/14/2020		5.76	5.66			5.01			
9/22/2020	4.66						5.76	6	5.88
9/23/2020				5.85	5.72				
9/24/2020		5.69	5.64			5.1			
3/1/2021									5.82
3/2/2021	4.45			5.81	5.68				
3/3/2021		5.71	5.63			5.23	5.3	6.13	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			5.73	5.83	5.69			6.07	
9/10/2021	4.67	5.65							5.83
9/13/2021						5.06	5.15		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	6.29	5.94			
3/29/2017					
3/30/2017			6.03	5.75	
3/31/2017					
5/11/2017	6.6			5.67	
5/12/2017		5.46	5.97		
5/15/2017					5.72
6/15/2017	6.41		6	5.75	5.74
6/16/2017		5.81			
7/11/2017		5.74		5.87	5.62
7/12/2017	5.91		5.97		
7/13/2017					
8/8/2017					5.6
10/24/2017	5.51	5.86		5.82	5.71
10/25/2017					
10/26/2017			5.9		
11/15/2017	6.5	5.77			
2/27/2018		5.66		5.85	5.5
2/28/2018					
3/1/2018			6.19		
3/2/2018					
3/8/2018	6.18				
7/10/2018		5.63			5.44
7/11/2018				5.85	
7/12/2018	6.33		5.97		
11/6/2018		5.79		5.88	5.71
11/7/2018	6.22				
11/8/2018			5.96		
3/12/2019		5.74		5.94	5.52
3/13/2019	6				
3/14/2019			5.99		
8/27/2019		5.87		5.94	5.53
8/28/2019	6.04				
8/29/2019			5.96		
9/17/2019					
10/15/2019		5.88			5.61
10/16/2019	6.69				
10/17/2019				6.16	
10/18/2019			5.99		
3/2/2020		5.77			5.54
3/3/2020				5.94	
3/4/2020			5.68		
3/9/2020	6.41				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/11/2020		5.96		6.04	5.86
8/12/2020					
8/13/2020	6.17		6		
8/14/2020					
9/22/2020	6.43	6.06			6.01
9/23/2020				5.99	
9/24/2020			6.19		
3/1/2021		5.8			5.43
3/2/2021				6.01	
3/3/2021			5.85		
3/4/2021					
3/12/2021	6.38				
9/8/2021		5.76			
9/9/2021	6.41		6	6	5.5
9/10/2021					
9/13/2021					

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-11	DGWC-5	DGWC-14	DGWC-47	DGWC-12	DGWC-19
8/30/2016	300	450							
8/31/2016			400	200	400	44			
9/1/2016							470	390	240
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	320	480	190	190	460	45			
12/7/2016								350	250
12/8/2016							400		
3/28/2017	300				380				
3/29/2017		660	360	200		81 (O)		150	250
3/30/2017									
3/31/2017							350		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	320	440			440				
7/12/2017			390	210		44		350	250
7/13/2017							270		
8/8/2017									
10/24/2017	430	430	410	210					
10/25/2017					510	42		400	270
10/26/2017							290		
11/15/2017			390						
2/27/2018	327	340	335	220	453	41		356	
2/28/2018									244
3/1/2018							245		
3/2/2018									
3/8/2018									
7/11/2018	344					40.6		344	249
7/12/2018							240		
11/6/2018	438	307	356	302	556				
11/7/2018						41.3	143	298	266
11/8/2018									
3/12/2019	362	295	297	275	484			284	
3/13/2019						41.2			299
3/14/2019							238		
10/15/2019			263	273				270	
10/16/2019		235			493	42.1			323
10/17/2019	331						179		
10/18/2019									
3/2/2020				264	455			181	
3/3/2020	247	195	213			45.5			292
3/4/2020							176		
3/9/2020									
9/22/2020	282			267	423	40.2		183	310
9/23/2020		178					111		
9/24/2020			204						
3/1/2021									
3/2/2021	266	152		250	412	42.6			324

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-11	DGWC-5	DGWC-14	DGWC-47	DGWC-12	DGWC-19
3/3/2021							143	203	
3/4/2021			240						
3/12/2021									
9/8/2021									
9/9/2021				247		42.3		126	315
9/10/2021	264		271		449		123		
9/13/2021		145							

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	540								
9/2/2016		140	300	580					
9/6/2016					170	180			
9/7/2016							370	230	
12/6/2016									
12/7/2016				650	160	180			
12/8/2016	540	260	280				350	240	
3/28/2017									680
3/29/2017		290		640					
3/30/2017	550		270		180	210		260	
3/31/2017							380		
5/11/2017									
5/12/2017									680
5/15/2017									
6/15/2017									730
6/16/2017									
7/11/2017									740
7/12/2017			290	630	170	170		230	
7/13/2017	500	300					370		
8/8/2017									
10/24/2017									930
10/25/2017		290	290	610		180	370	240	
10/26/2017	510								
11/15/2017					180				820
2/27/2018									811
2/28/2018		278	267	584	43.5	168	350	203	
3/1/2018									
3/2/2018	456								
3/8/2018									
7/11/2018			277	501		154	366	234	
7/12/2018	409	197							
11/6/2018									902
11/7/2018	432	320	286	554	162	168	439	248	
11/8/2018									
3/12/2019									987
3/13/2019			312	539	179			268	
3/14/2019	450	297				195	404		
10/15/2019									888
10/16/2019					167				
10/17/2019			255	426		146	321		
10/18/2019	336	254						222	
3/2/2020									840
3/3/2020		242	269		157	148			
3/4/2020	368			434			329	222	
3/9/2020									
9/22/2020				408			320		800
9/23/2020	313				134	146			
9/24/2020		262	269					259	
3/1/2021									840
3/2/2021				458	131	148			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
3/3/2021	312	252	264				329	237	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			238		127	139			
9/10/2021	272	234		399					823
9/13/2021							285	222	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	17	2.7	49		
3/29/2017					
3/30/2017				360	220
3/31/2017					
5/11/2017			21	340	
5/12/2017	17				220
5/15/2017		1			
6/15/2017		0.86 (J)	16	300	200
6/16/2017	11				
7/11/2017	11	1.4		330	
7/12/2017			10		220
7/13/2017					
8/8/2017		1.5			
10/24/2017	9.6	1.4	15	260	
10/25/2017					
10/26/2017					220
11/15/2017	7.8		3.8		
2/27/2018	7.4	0.54 (J)		189	
2/28/2018					
3/1/2018					209
3/2/2018					
3/8/2018			9.7		
7/11/2018				162	
7/12/2018			8		202
11/6/2018	7.3	<1 (J)		190	
11/7/2018			12.8		
11/8/2018					292
3/12/2019	7	0.35 (J)		159	
3/13/2019			23.7		
3/14/2019					266
10/15/2019	7.4	0.16 (J)			
10/16/2019			15.1		
10/17/2019				134	
10/18/2019					203
3/2/2020	8.5	<1			
3/3/2020				118	
3/4/2020					204
3/9/2020			9.5		
9/22/2020	6.5	<1	13.5		
9/23/2020				122	
9/24/2020					215
3/1/2021	5.2	<1			
3/2/2021				112	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
3/3/2021					221
3/4/2021					
3/12/2021			8.8		
9/8/2021	6.1				
9/9/2021		<1	11.9	110	217
9/10/2021					
9/13/2021					

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-5	DGWC-11	DGWC-14	DGWC-19	DGWC-48	DGWC-12
8/30/2016	693	414							
8/31/2016			525	524	307	106			
9/1/2016							396	845	568
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	595	690	358	138			
12/7/2016							400		559
12/8/2016								777	
3/28/2017		404		545					
3/29/2017	654		525		300	102	390		550
3/30/2017								775	
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	679	436		612					
7/12/2017			598		382	118	360		594
7/13/2017								789	
8/8/2017									
10/24/2017	468	599	353		342				
10/25/2017				650		88	423		571
10/26/2017								753	
11/15/2017			582						
2/27/2018	520	482	542	698	393	99			582
2/28/2018							440		
3/1/2018									
3/2/2018								704	
3/8/2018									
7/11/2018		532				119	457		593
7/12/2018								705	
11/6/2018	456	554	512	809	412				
11/7/2018						113	461	678	504
11/8/2018									
3/12/2019	438	493	436	711	433				465
3/13/2019						280	113		
3/14/2019								625	
10/15/2019			447		461				472
10/16/2019	374			702		104	500		
10/17/2019		550							
10/18/2019								593	
3/2/2020				759	458				338
3/3/2020	369	444	382			123	526		
3/4/2020								630	
3/9/2020									
9/22/2020		461		716	481	105	513		338
9/23/2020	333							575	
9/24/2020			283						
3/1/2021									
3/2/2021	291	449		730	456	105	513		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	704								
9/2/2016		1100	502	459					
9/6/2016					296	304			
9/7/2016							611	353	
12/6/2016									
12/7/2016		930			270	287			
12/8/2016	587		464	491			535	408	
3/28/2017									1160
3/29/2017		923	462						
3/30/2017				436	287	312		338	
3/31/2017	545						661		
5/11/2017									
5/12/2017									1230
5/15/2017									
6/15/2017									1290
6/16/2017									
7/11/2017									1160
7/12/2017		956		505	312	490 (O)		417	
7/13/2017	441		492				641		
8/8/2017									
10/24/2017									229
10/25/2017		854	477	474		290	626	343	
10/26/2017	444								
11/15/2017					325				1330
2/27/2018									1380
2/28/2018		888	476	480	84	313	616	364	
3/1/2018	435								
3/2/2018									
3/8/2018									
7/11/2018		826		485		320	638	393	
7/12/2018	372		486						
11/6/2018									1480
11/7/2018	348	834	511	516	314	325	626	408	
11/8/2018									
3/12/2019									1490
3/13/2019		639		486	656			802	
3/14/2019	378		491			340	630		
10/15/2019									1520
10/16/2019					296				
10/17/2019	327	751		498		319	612		
10/18/2019			480					403	
3/2/2020									1540
3/3/2020			452	490	263	323			
3/4/2020	334	761					721	414	
3/9/2020									
9/22/2020		724					547		1400
9/23/2020	229				278	317			
9/24/2020			455	494				411	
3/1/2021									1140
3/2/2021		742			256	272			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
3/3/2021	228		442	459			531	384	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021				396	246	292			
9/10/2021	274	678	468						1520
9/13/2021							508	424	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	202	39	90		
3/29/2017					
3/30/2017				580	380
3/31/2017					
5/11/2017	241			573	
5/12/2017			92		438
5/15/2017		88			
6/15/2017	251	65		626	458
6/16/2017			100		
7/11/2017		25	59	542	
7/12/2017	218				461
7/13/2017					
8/8/2017		53			
10/24/2017	671 (O)	49	117	523	
10/25/2017					
10/26/2017					446
11/15/2017	241		90		
2/27/2018		43	79	401	
2/28/2018					
3/1/2018					454
3/2/2018					
3/8/2018	213				
7/11/2018				334	
7/12/2018	198				432
11/6/2018		65	85	334	
11/7/2018	200				
11/8/2018					450
3/12/2019		43	74	297	
3/13/2019	201				
3/14/2019					453
10/15/2019		70	89		
10/16/2019	126				
10/17/2019				302	
10/18/2019					448
3/2/2020		52	67		
3/3/2020				277	
3/4/2020					408
3/9/2020	171				
9/22/2020	142	46	74		
9/23/2020				267	
9/24/2020					456
3/1/2021		25	62		
3/2/2021				241	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
3/3/2021					425
3/4/2021					
3/12/2021	124				
9/8/2021			75		
9/9/2021	131	53		260	455
9/10/2021					
9/13/2021					

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7511	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.06556	62	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.24	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.08547	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.263	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.7252	-64	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3101	54	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.0335	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07754	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.4216	-69	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2815	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.533	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.66	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.089	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-15.03	-87	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	21.16	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.485	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	8.05	50	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1941	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	1.079	44	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.7273	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.5787	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.305	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.833	83	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.241	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.873	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.134	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-2.232	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1917	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.05374	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.112	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02122	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.2582	-50	-48	Yes	14	35.71	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.564	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-47.07	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.561	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-59.83	-83	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-51.63	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-58.21	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-56.15	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-72.96	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-26.59	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	32.36	53	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	29.77	52	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-58.61	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-61.71	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	38.2	54	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-87.61	-70	-43	Yes	13	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002041	-16	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	14	48	No	14	57.14	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0	-2	-43	No	13	23.08	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-10	-0.7511	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.06556	62	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.24	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.08547	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.01926	22	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03666	39	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1898	-40	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.263	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.7252	-64	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-21	0.2662	21	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.1044	17	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.1025	25	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3101	54	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-42	-0.01135	-22	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.0335	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07754	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-5	-0.1613	-13	-43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.4216	-69	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2815	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.533	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-70A (bg)	-0.1515	-29	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.6883	-36	-43	No	13	7.692	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.262	-14	-43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.66	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.089	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-15.03	-87	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-20	-4.731	-43	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.444	41	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.05105	6	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.103	32	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	21.16	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.485	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	8.05	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-9	-5.362	-25	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1941	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.08417	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.07636	12	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.6293	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	1.079	44	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.7273	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.3754	-14	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.5787	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-17	0.6518	35	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.305	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.833	83	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.241	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.873	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.134	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-2.232	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.4296	43	43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1857	-24	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5877	44	48	No	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.001259	-9	-63	No	17	11.76	n/a	n/a	0.01	NP

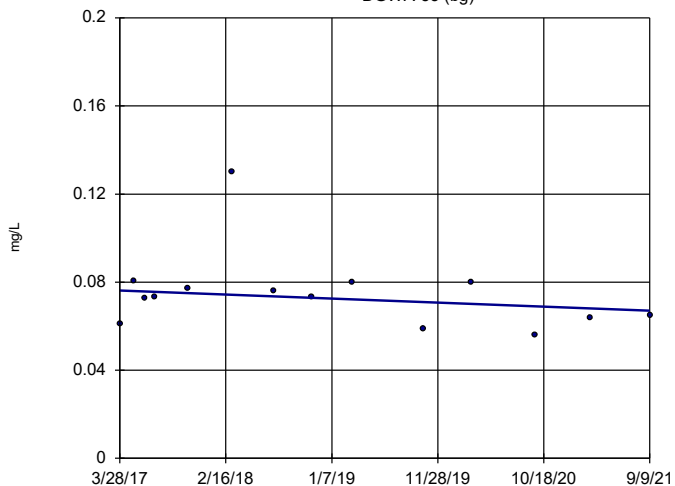
Appendix III Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-70A (bg)	0.01092	48	53	No	15	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	32	58	No	16	81.25	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03121	14	58	No	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1917	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-9	0.03993	16	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02897	13	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-22	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.03005	28	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.061	32	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	-0.003279	-9	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.05374	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.02007	-42	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02543	-32	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1735	-52	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-48	-0.02287	-24	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.112	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-8	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02122	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-1.708	-31	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.2582	-50	-48	Yes	14	35.71	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.564	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-10	-35.48	-42	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	15.01	34	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-47.07	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-13	-7.462	-36	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.3613	-11	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.561	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-17	-0.2865	-6	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-59.83	-83	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-51.63	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-7.197	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-5.563	-14	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	3	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	34.38	33	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-12.99	-40	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-58.21	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-56.15	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-5	1.576	2	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-72.96	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-9	-8.648	-15	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-26.59	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-1.029	-7	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-5.605	-39	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-38.88	-42	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	32.36	53	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	11.01	34	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	29.77	52	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-58.61	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	1.49	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.683	-27	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.7783	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	86.33	45	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.87	-24	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-61.71	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	38.2	54	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-87.61	-70	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	7.766	16	48	No	14	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

DGWA-53 (bg)



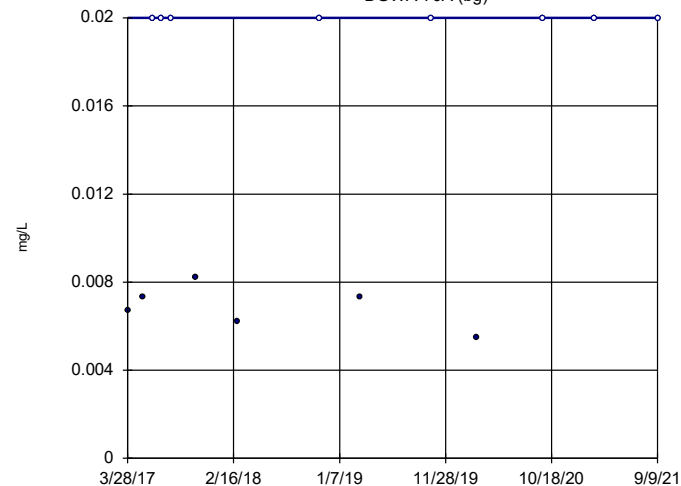
n = 14
 Slope = -0.002041
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



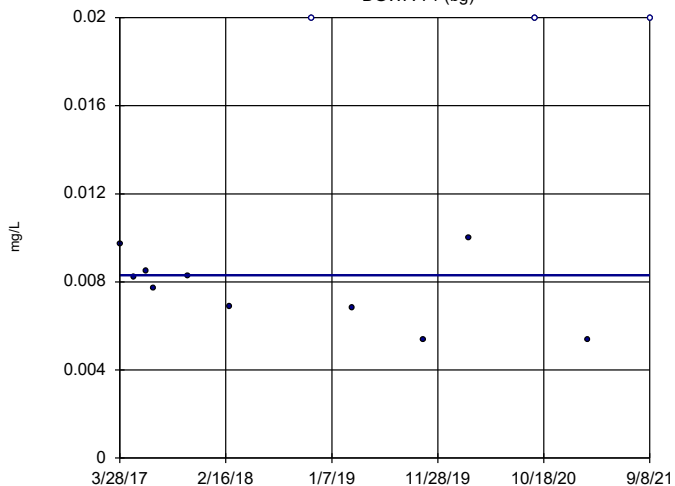
n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)

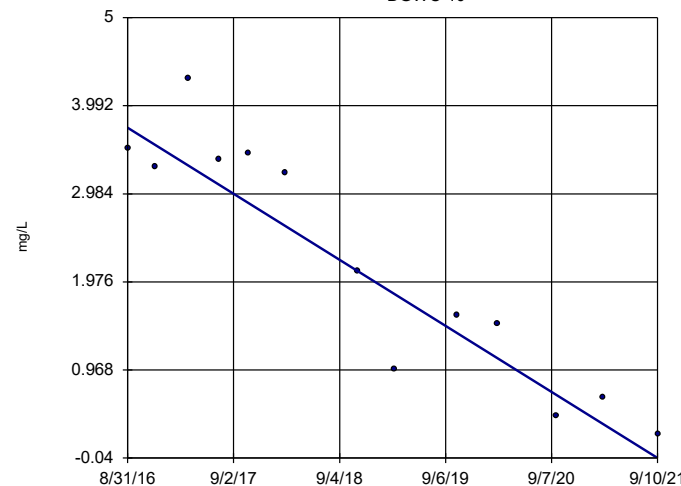


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

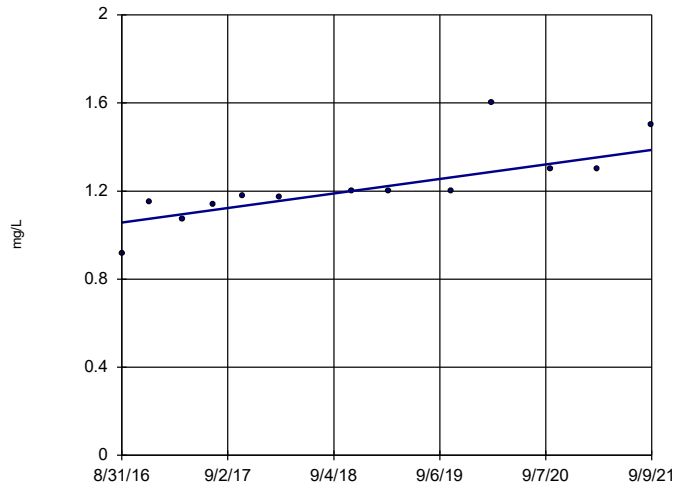
DGWC-10



n = 13
 Slope = -0.7511
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

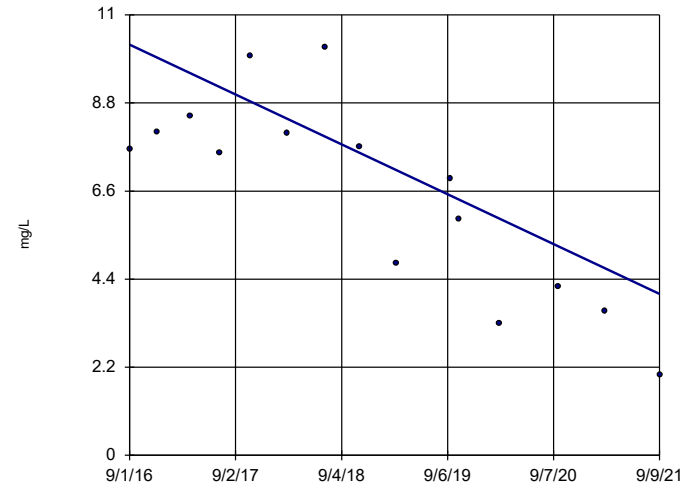
Sen's Slope Estimator
DGWC-11



n = 13
Slope = 0.06556 units per year.
Mann-Kendall statistic = 62
critical = 43
Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

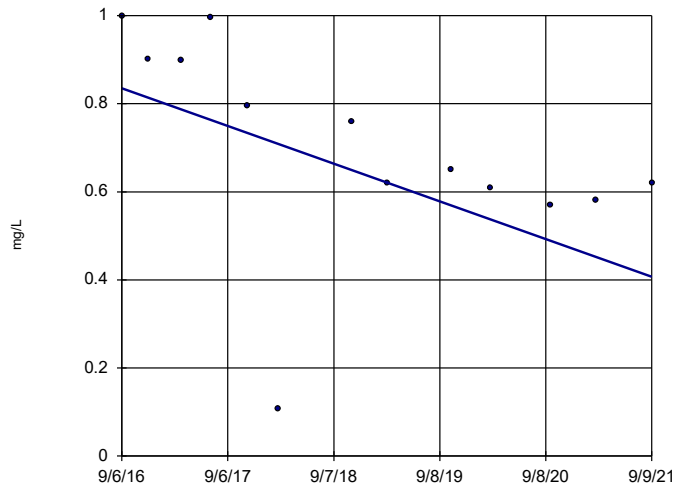
Sen's Slope Estimator
DGWC-12



n = 15
Slope = -1.24 units per year.
Mann-Kendall statistic = -63
critical = -53
Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

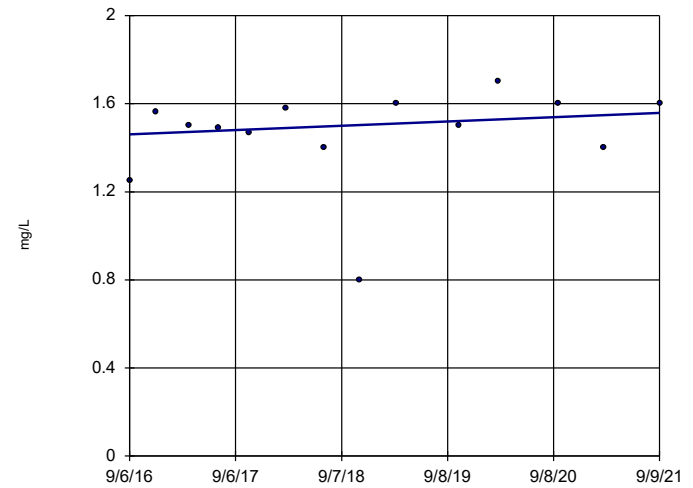
Sen's Slope Estimator
DGWC-13



n = 13
Slope = -0.08547 units per year.
Mann-Kendall statistic = -49
critical = -43
Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

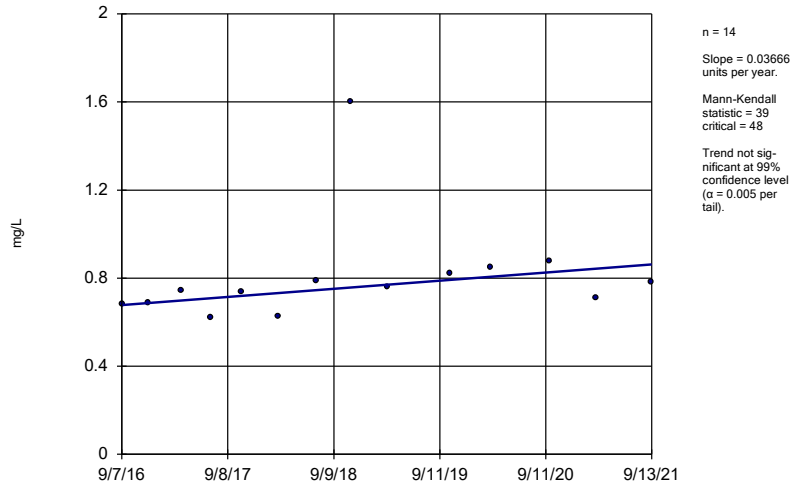
Sen's Slope Estimator
DGWC-15



n = 14
Slope = 0.01926 units per year.
Mann-Kendall statistic = 22
critical = 48
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

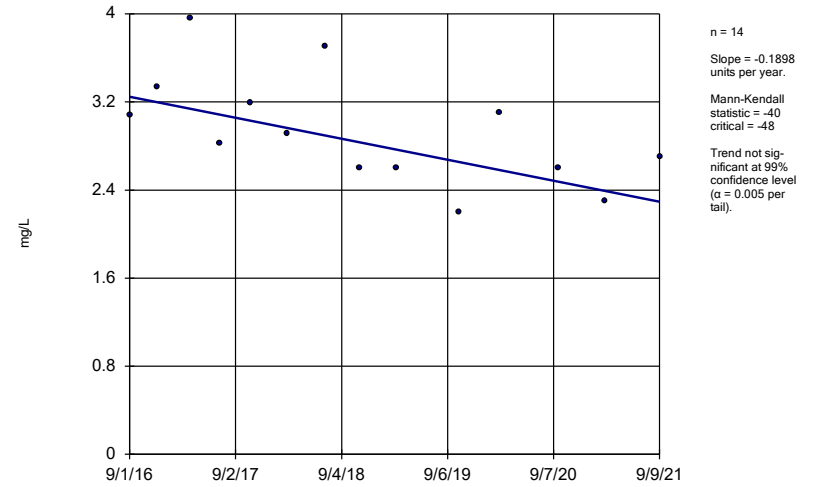
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



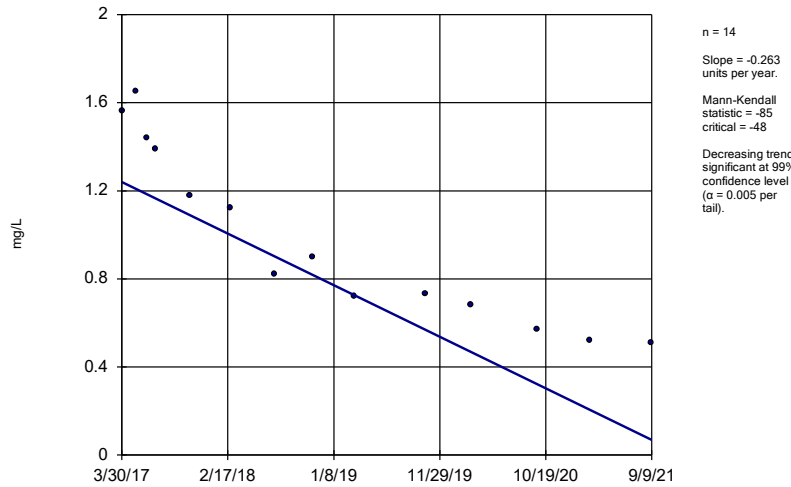
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



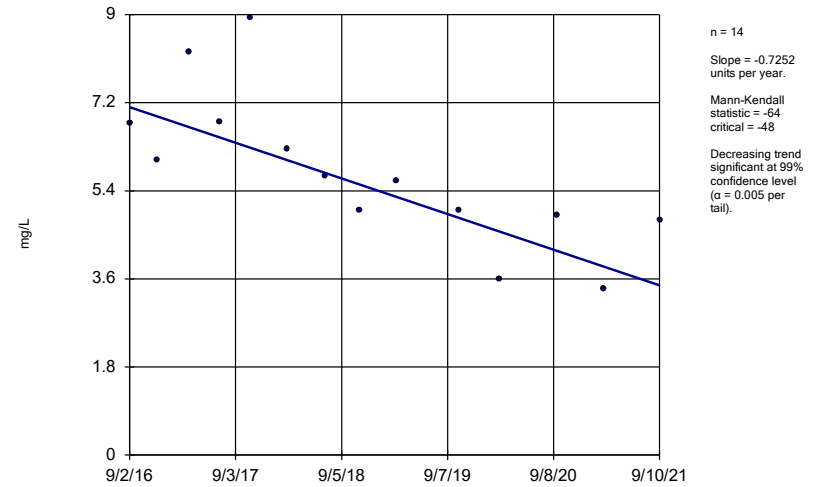
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-2



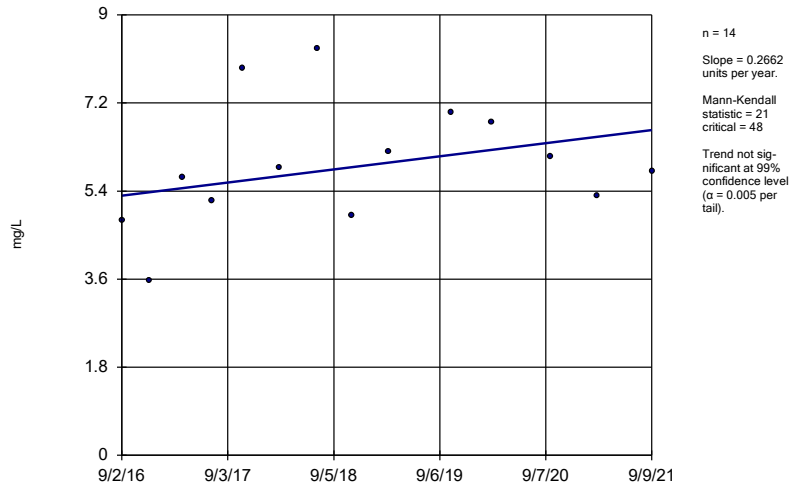
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



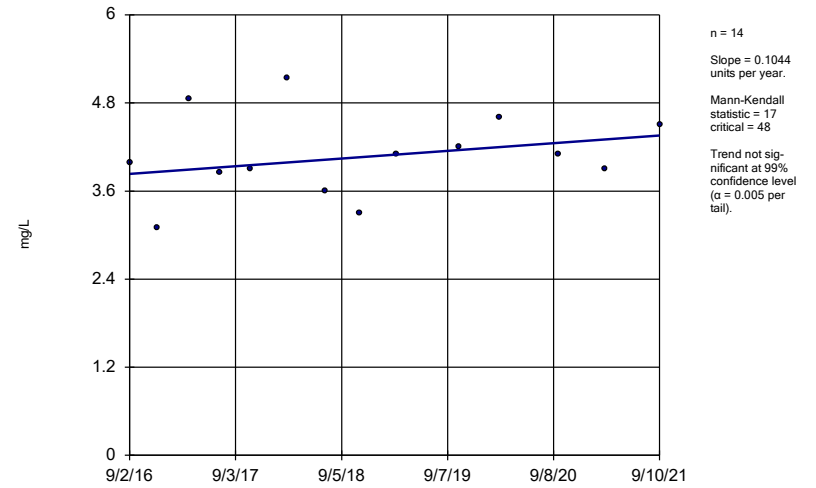
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



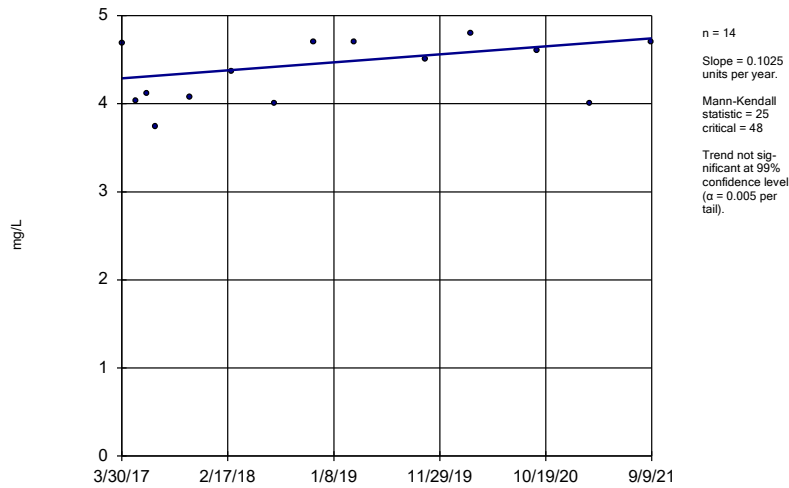
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



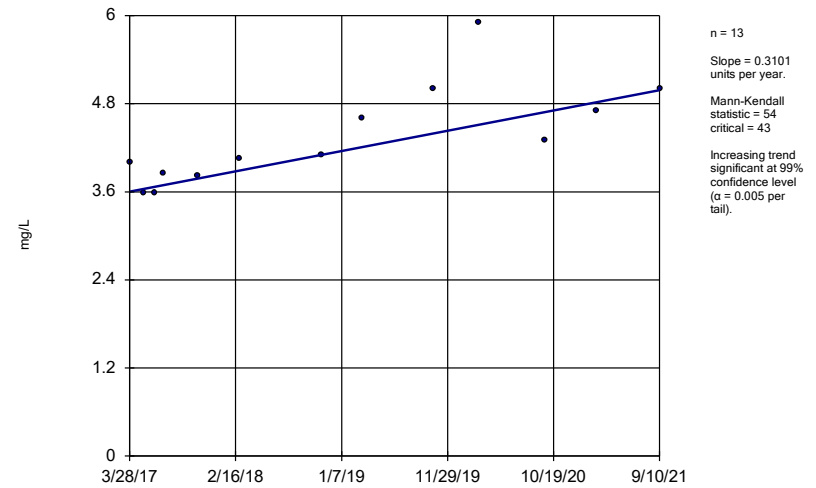
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



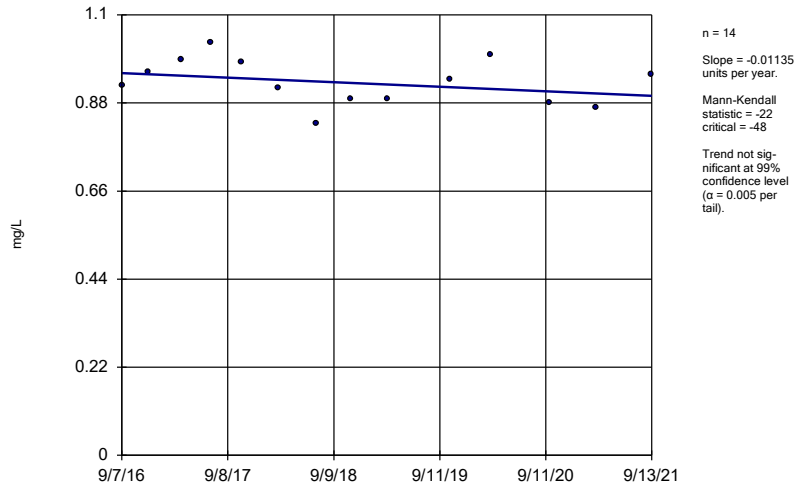
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



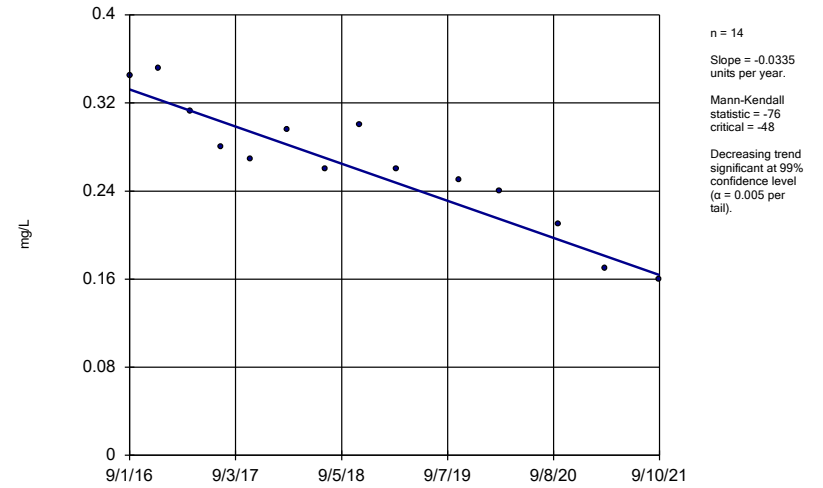
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-42



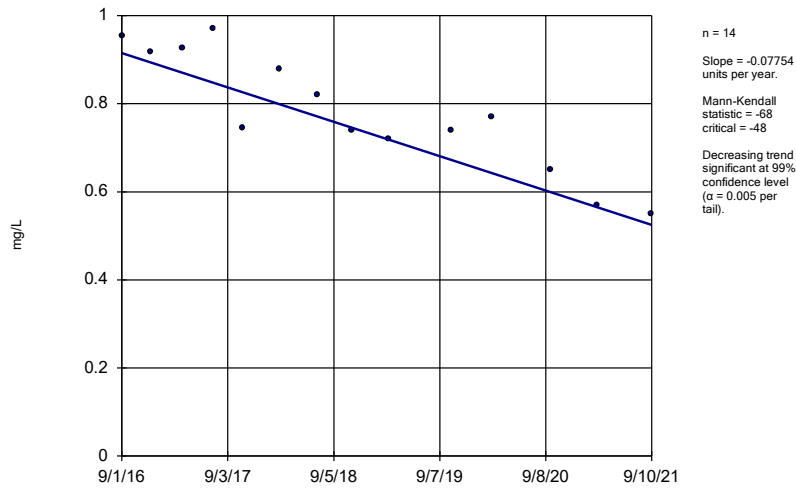
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



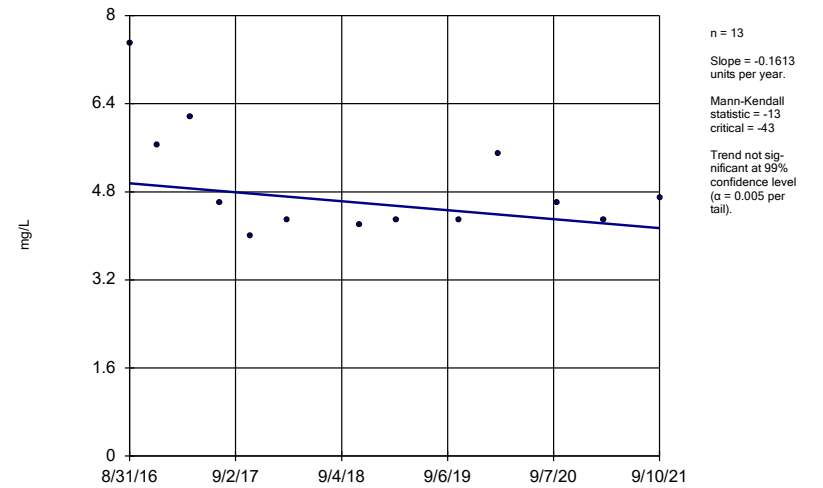
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



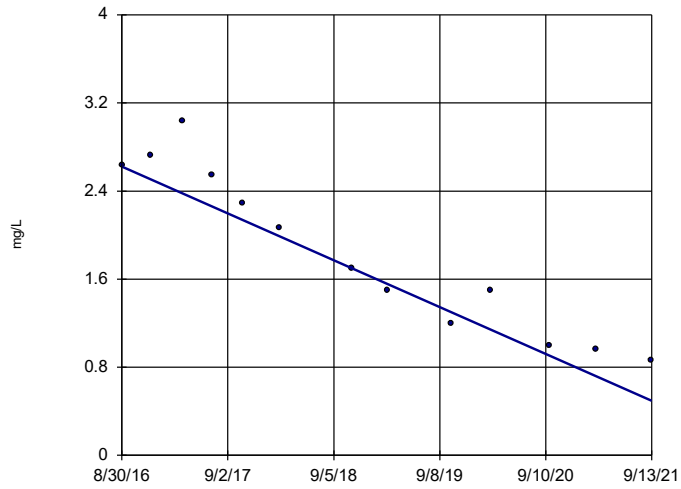
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

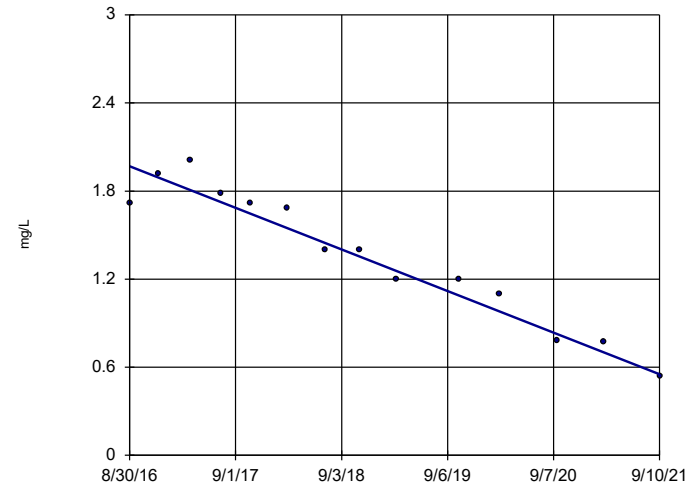
Sen's Slope Estimator
DGWC-8



n = 13
Slope = -0.4216
units per year.
Mann-Kendall
statistic = -69
critical = -43
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

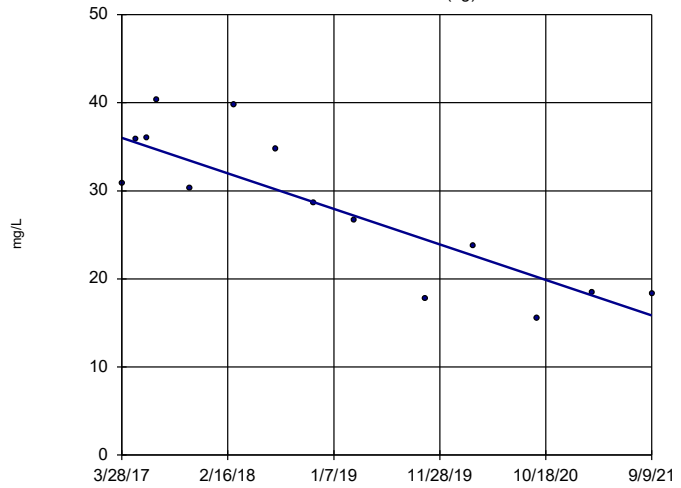
Sen's Slope Estimator
DGWC-9



n = 14
Slope = -0.2815
units per year.
Mann-Kendall
statistic = -80
critical = -48
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

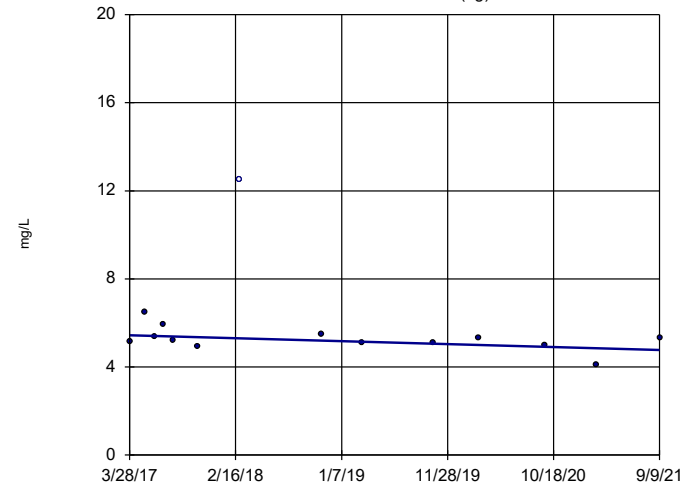
Sen's Slope Estimator
DGWA-53 (bg)



n = 14
Slope = -4.533
units per year.
Mann-Kendall
statistic = -57
critical = -48
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

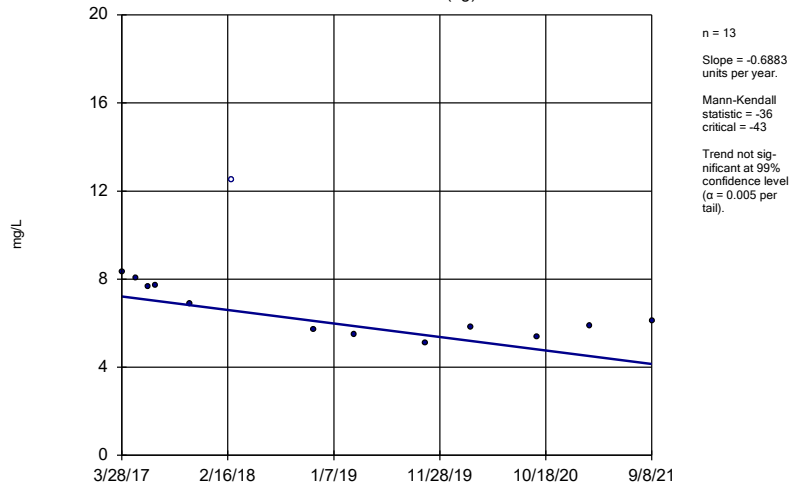
Sen's Slope Estimator
DGWA-70A (bg)



n = 14
Slope = -0.1515
units per year.
Mann-Kendall
statistic = -29
critical = -48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

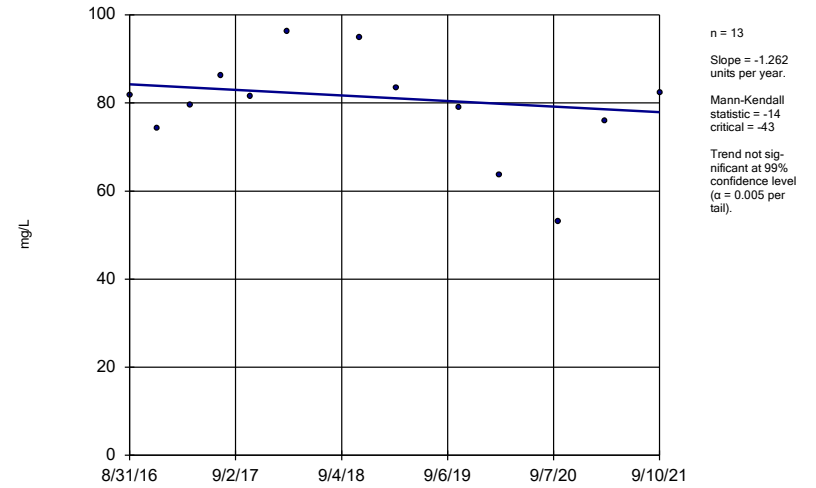
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



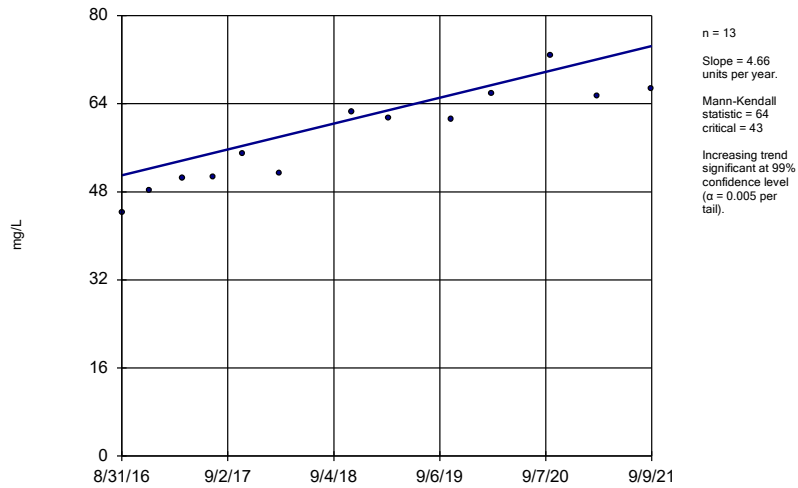
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



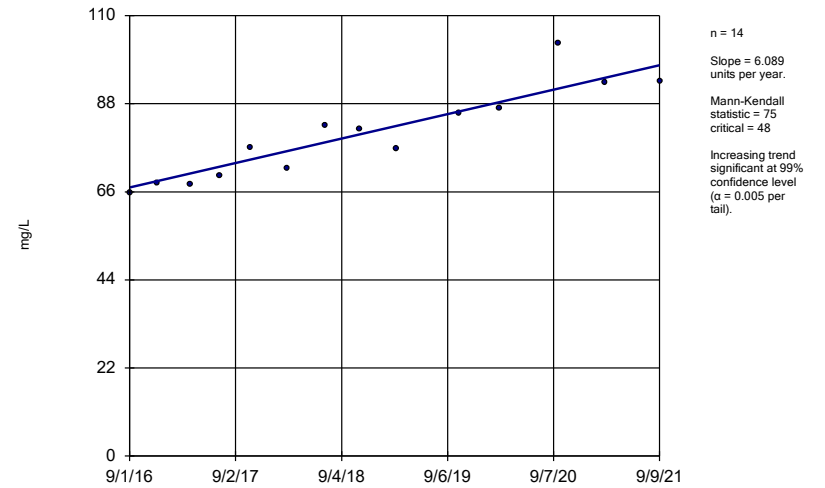
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-11



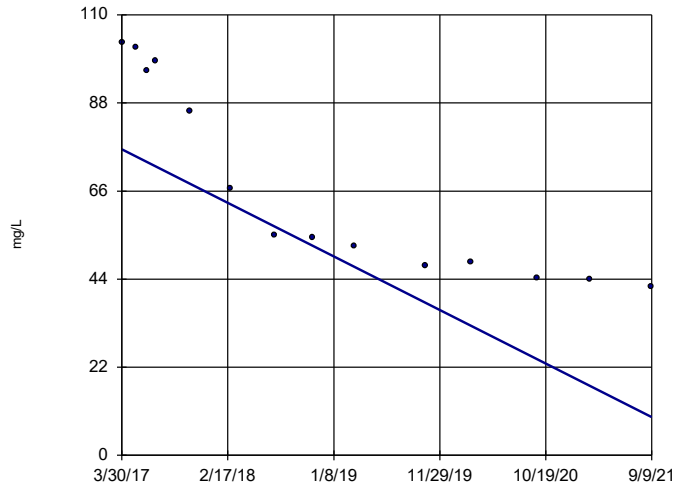
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-19



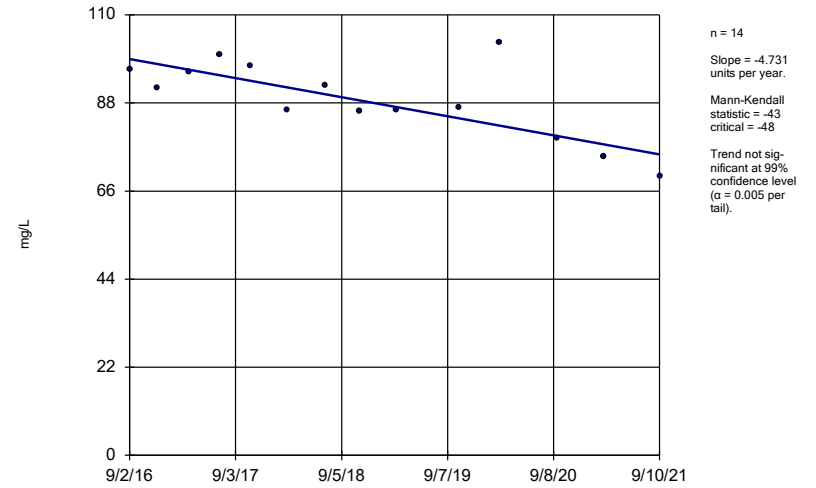
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-2



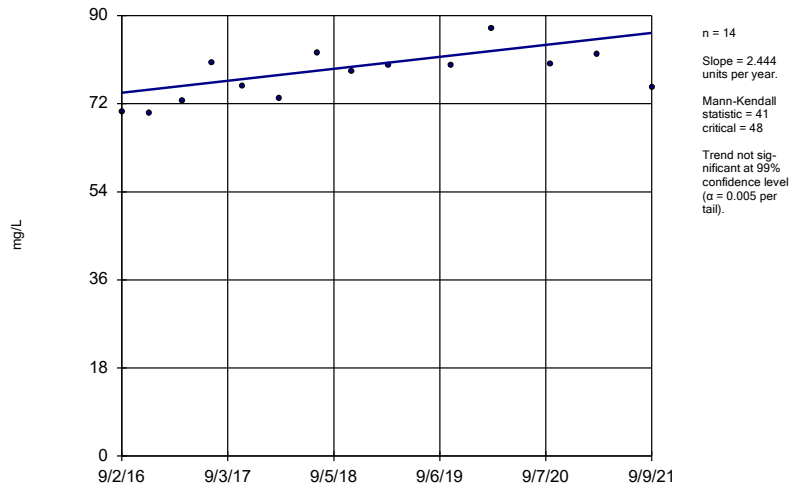
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



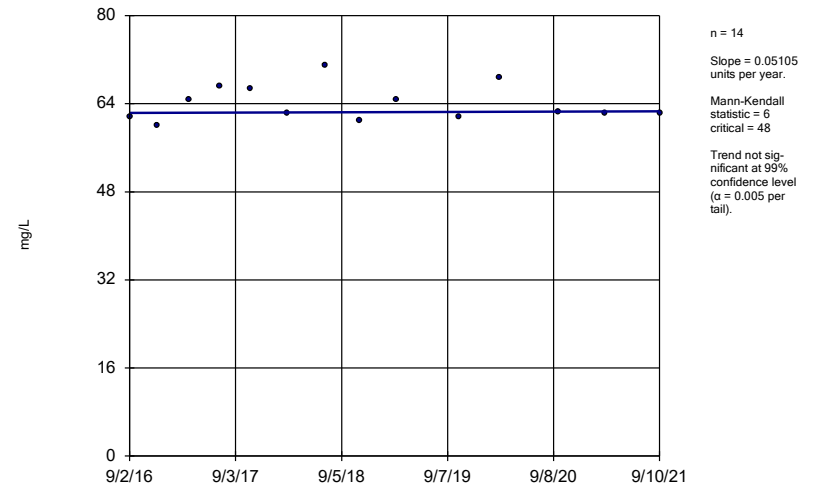
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



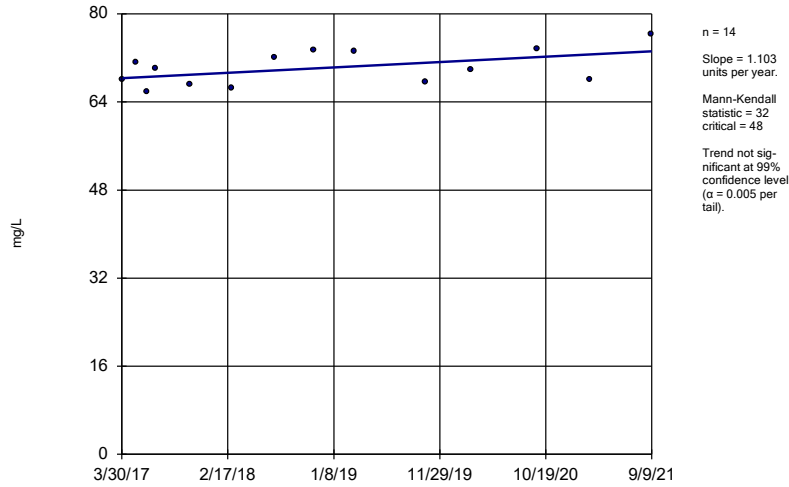
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



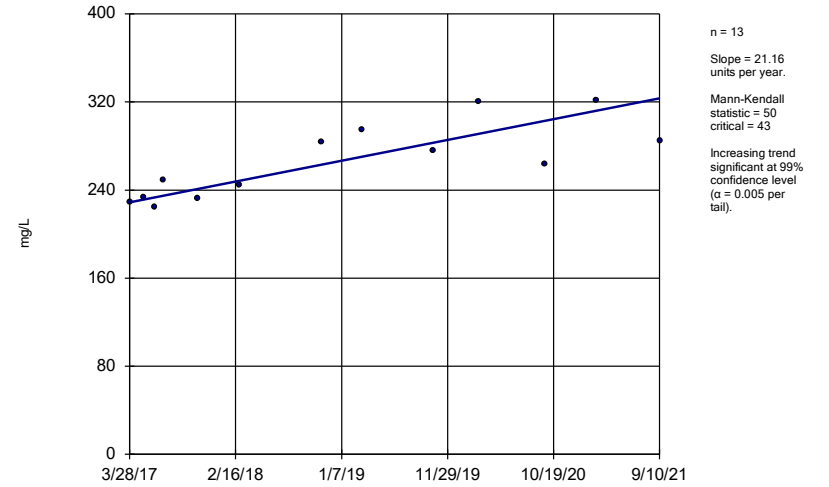
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



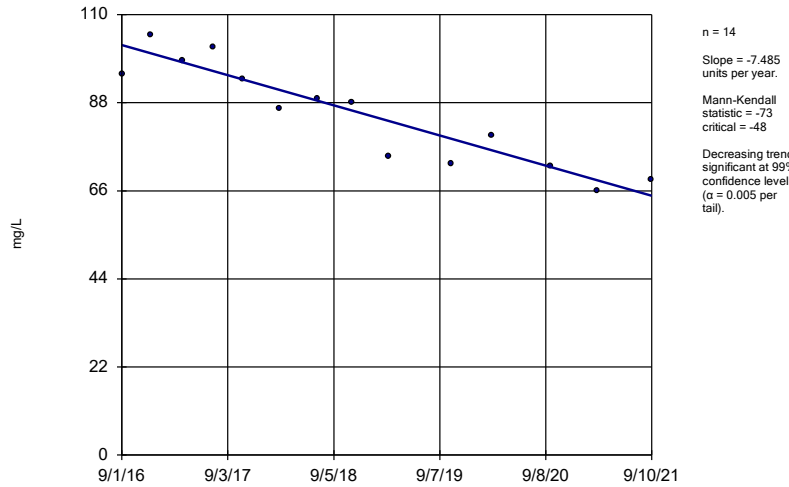
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



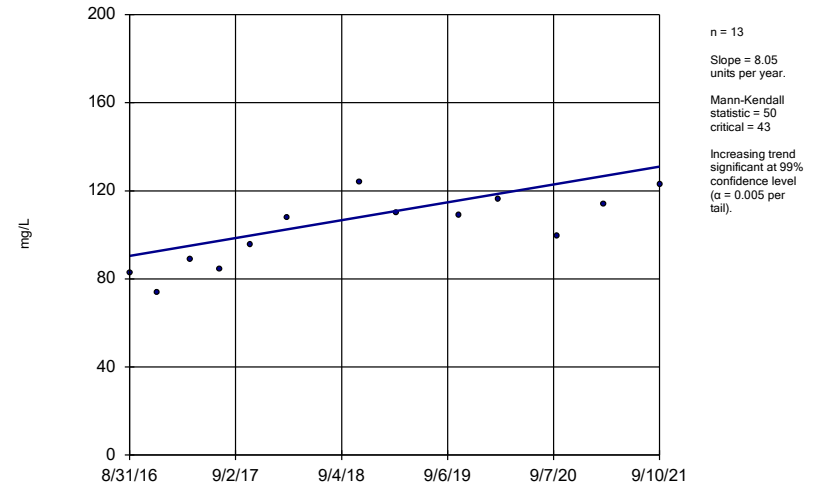
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



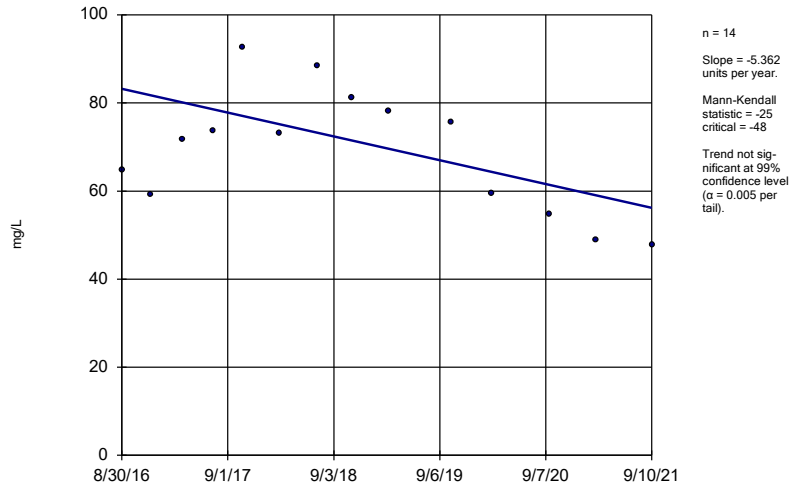
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



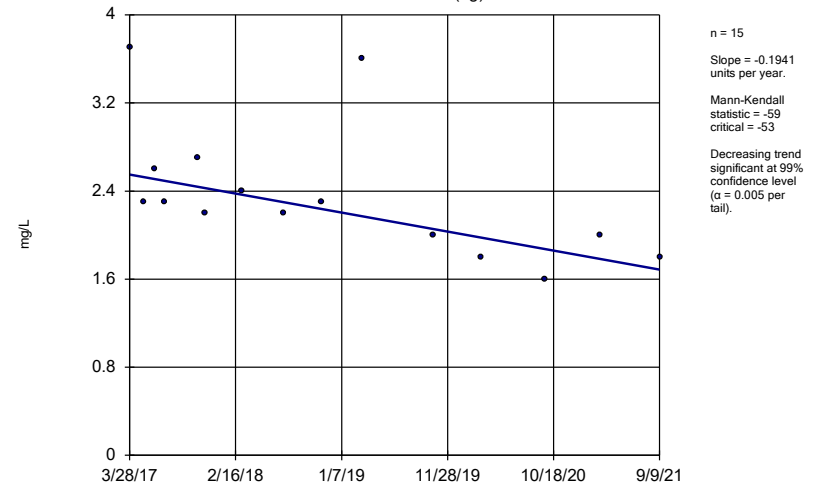
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



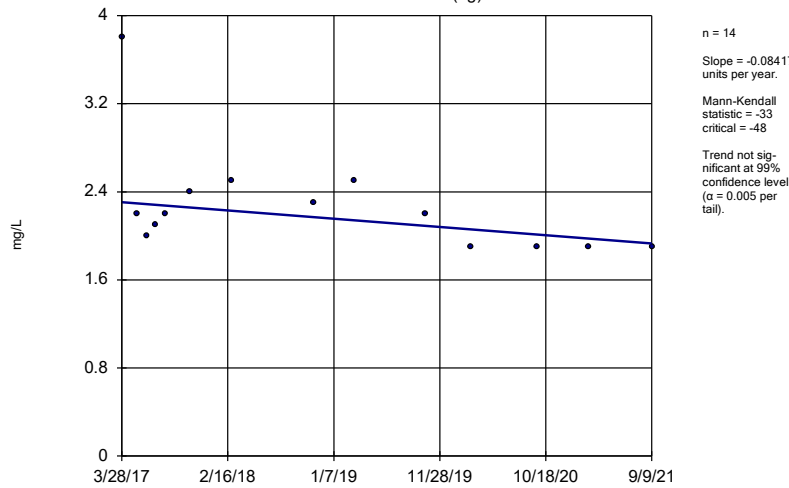
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



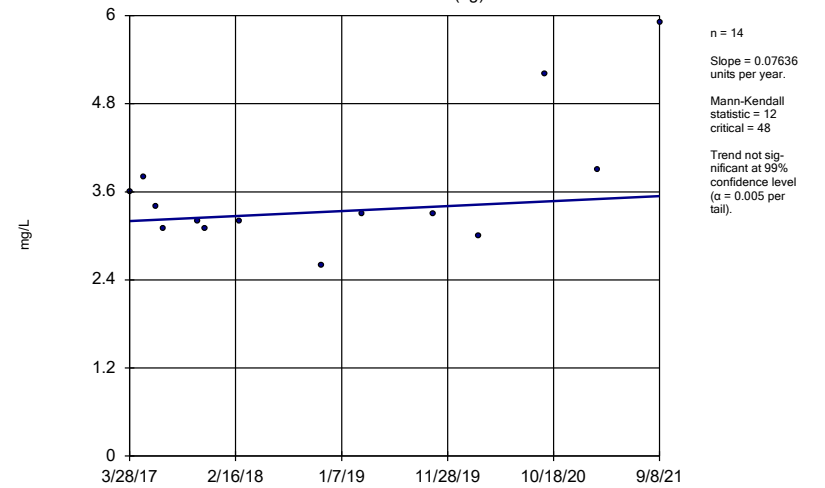
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



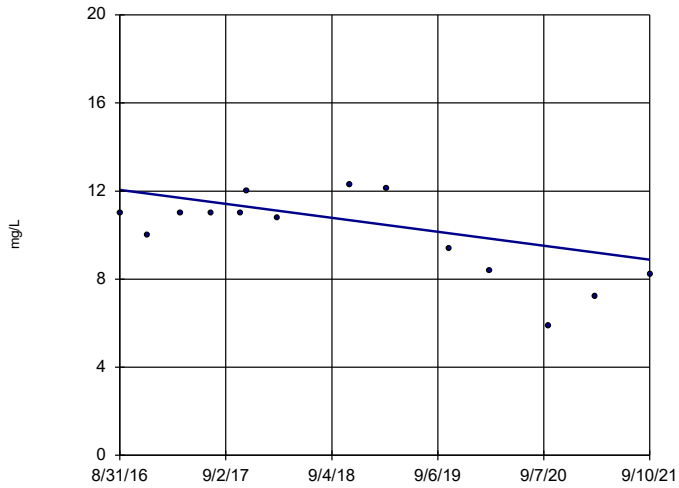
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



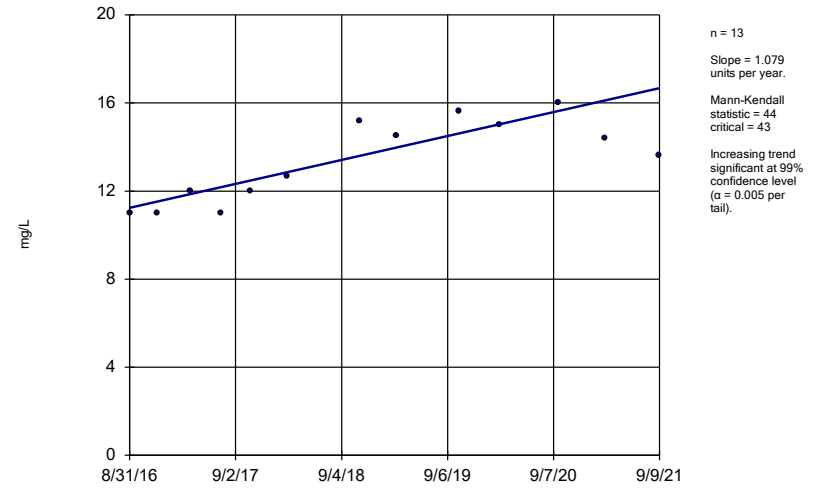
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



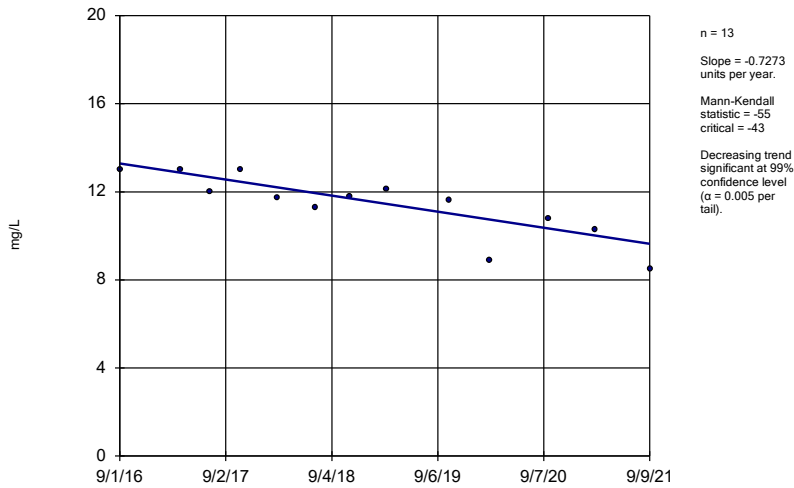
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-11



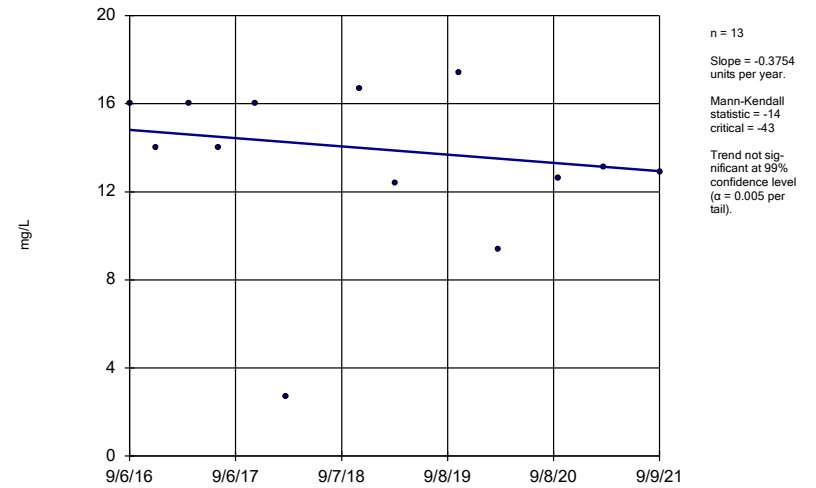
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-12



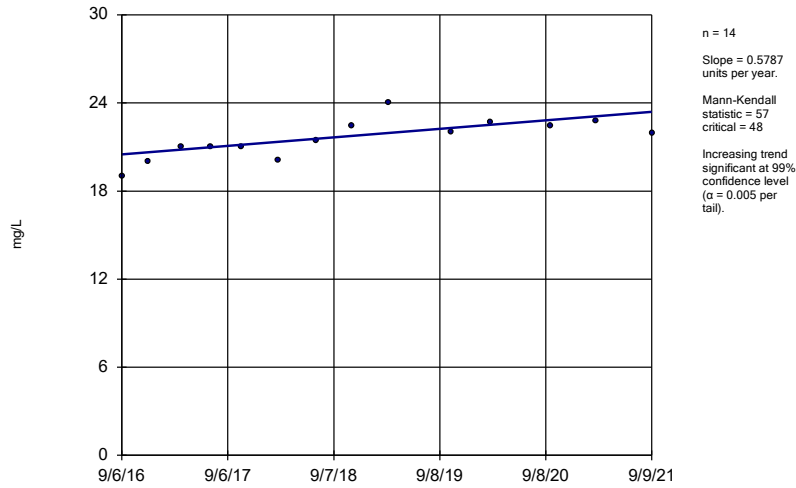
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-13



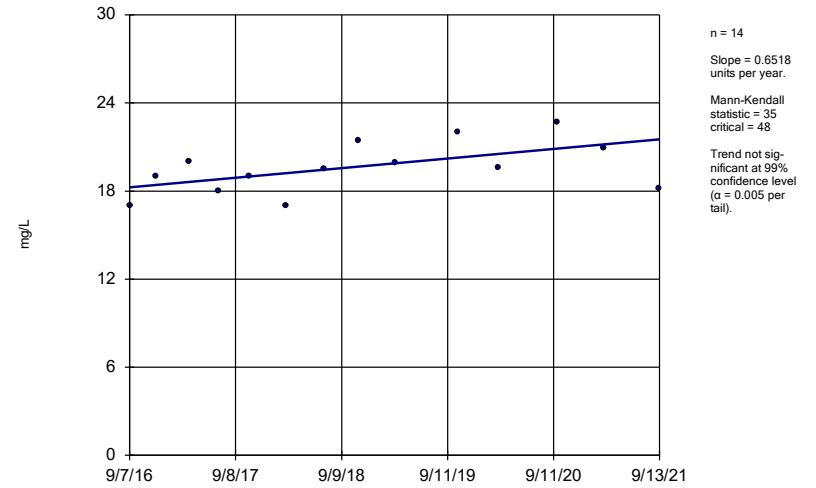
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-15



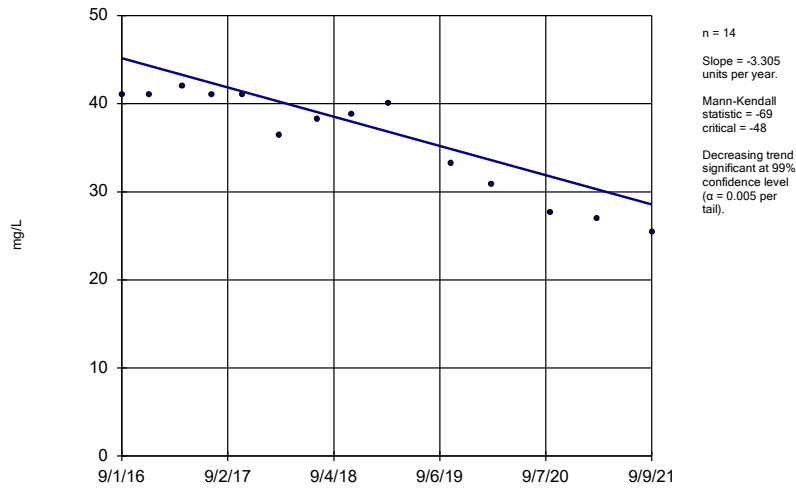
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



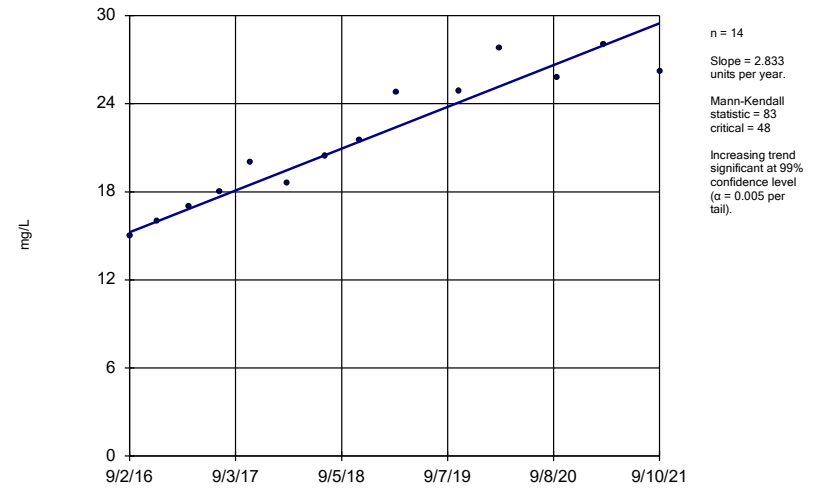
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



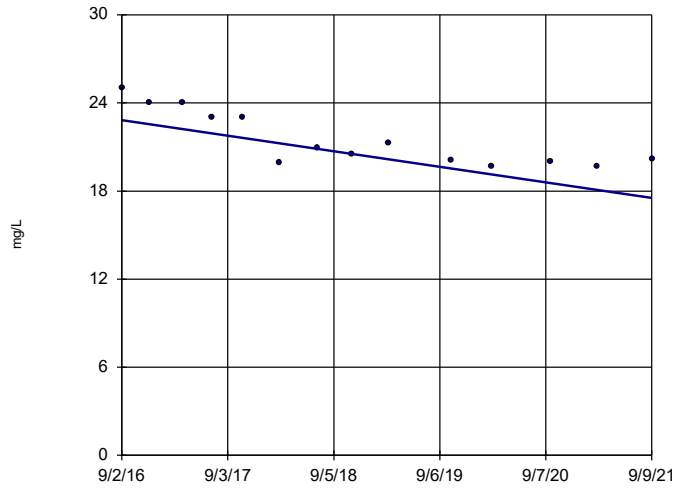
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



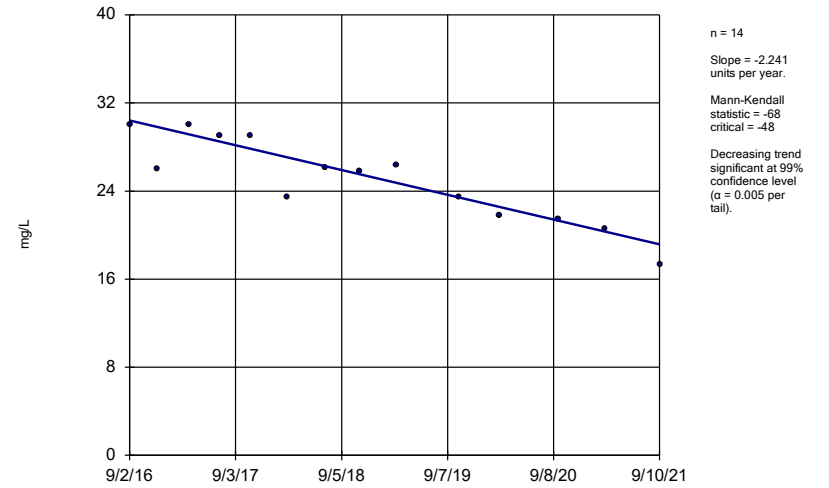
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-21



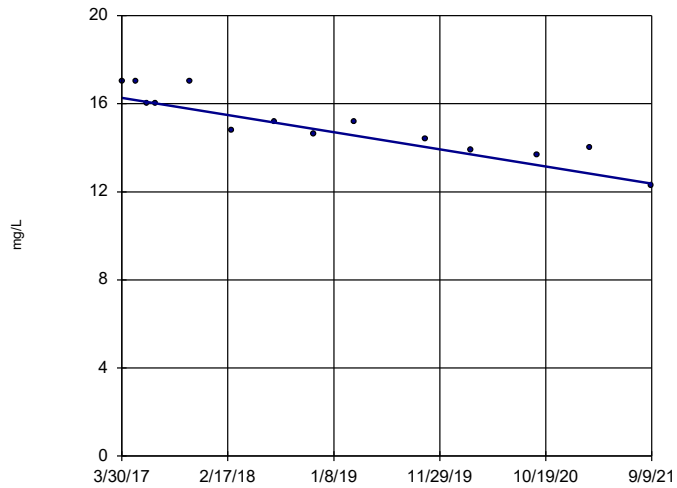
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-22



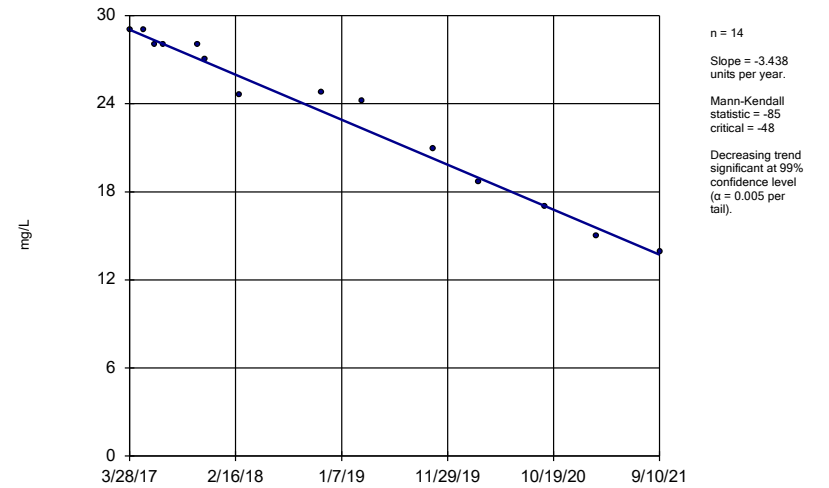
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-23



Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

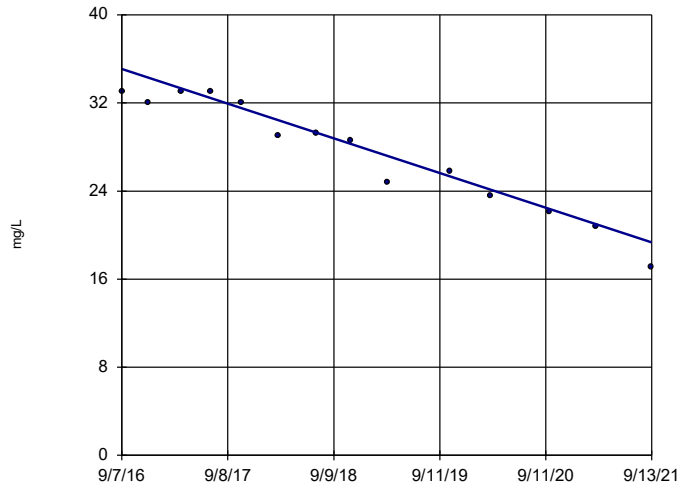
Sen's Slope Estimator DGWC-4



Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-42

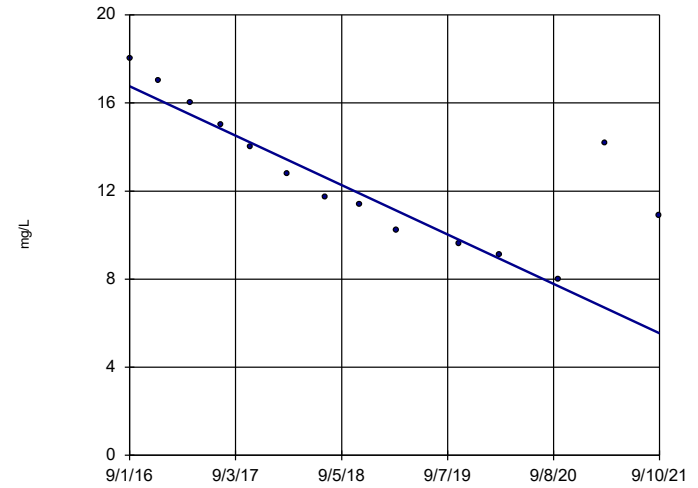


n = 14
 Slope = -3.134 units per year.
 Mann-Kendall statistic = -79
 critical = -48
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

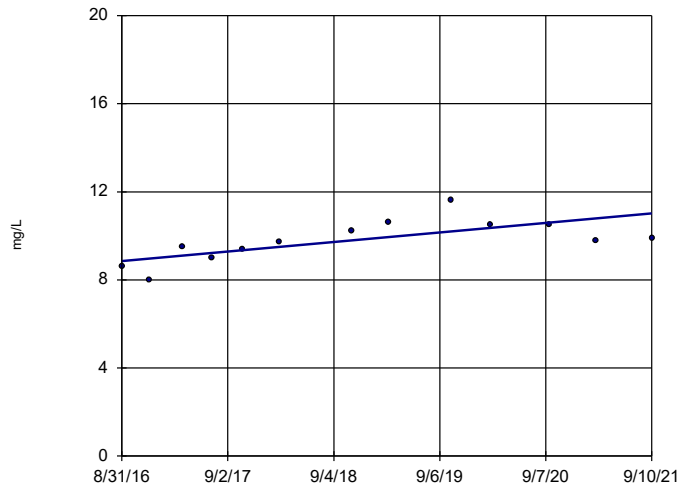


n = 14
 Slope = -2.232 units per year.
 Mann-Kendall statistic = -67
 critical = -48
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-5

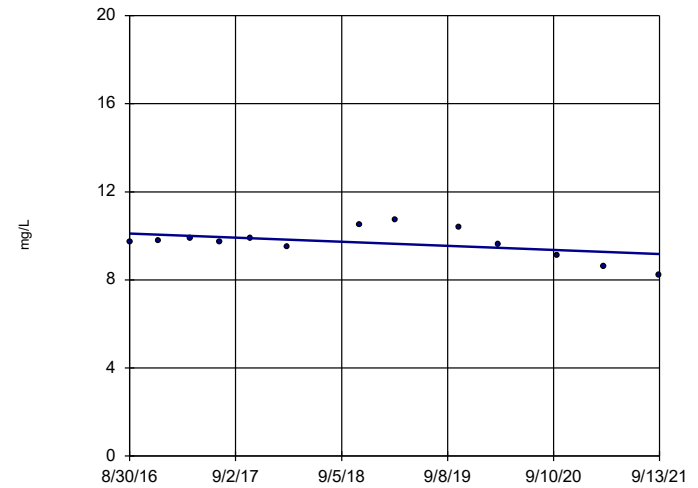


n = 13
 Slope = 0.4296 units per year.
 Mann-Kendall statistic = 43
 critical = 43
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

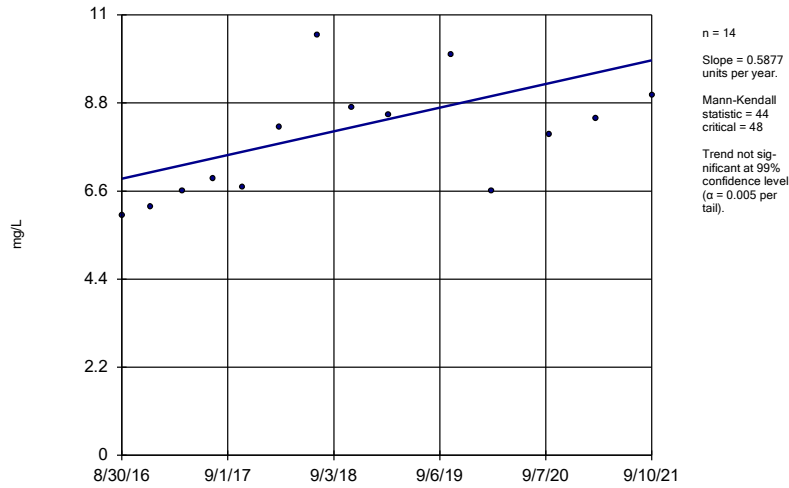
DGWC-8



n = 13
 Slope = -0.1857 units per year.
 Mann-Kendall statistic = -24
 critical = -43
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

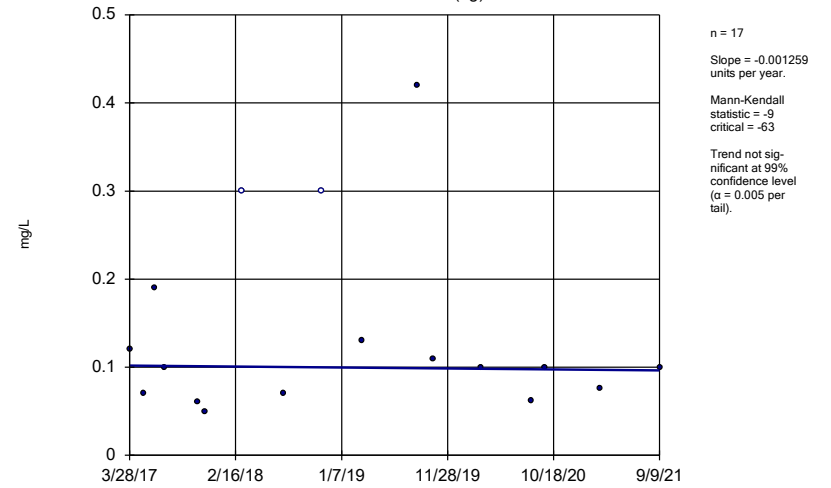
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



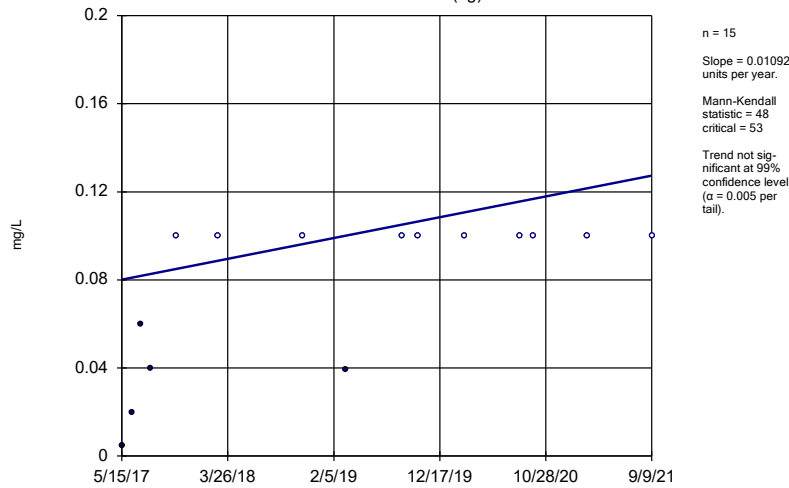
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



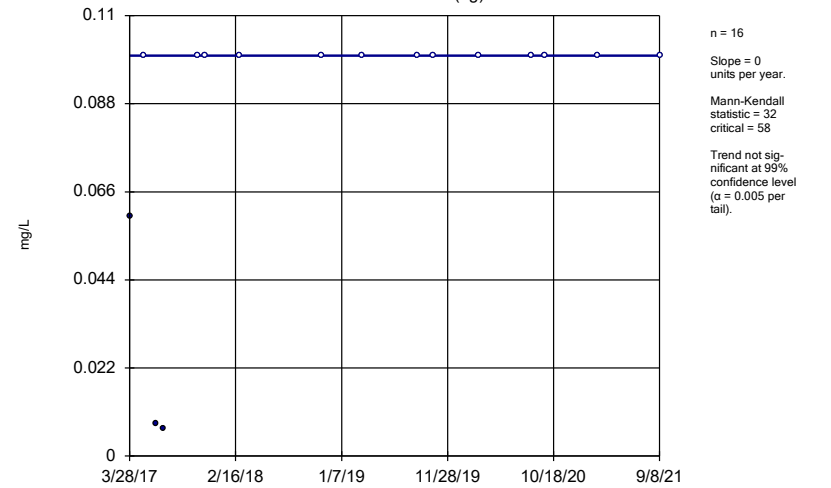
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



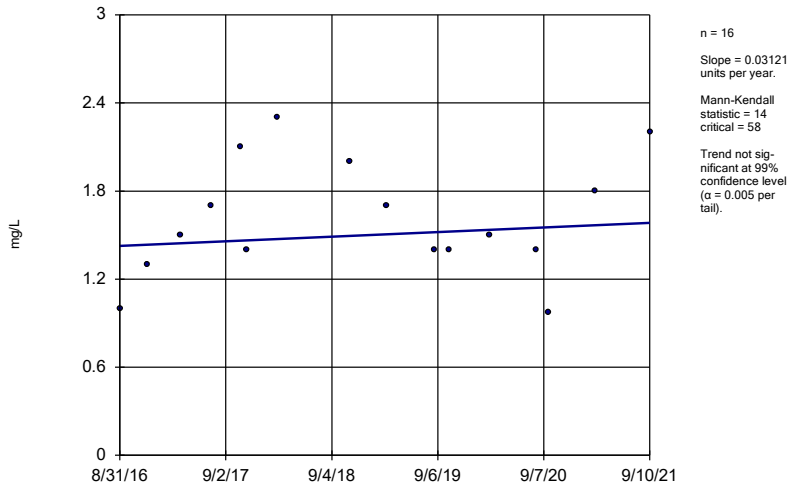
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



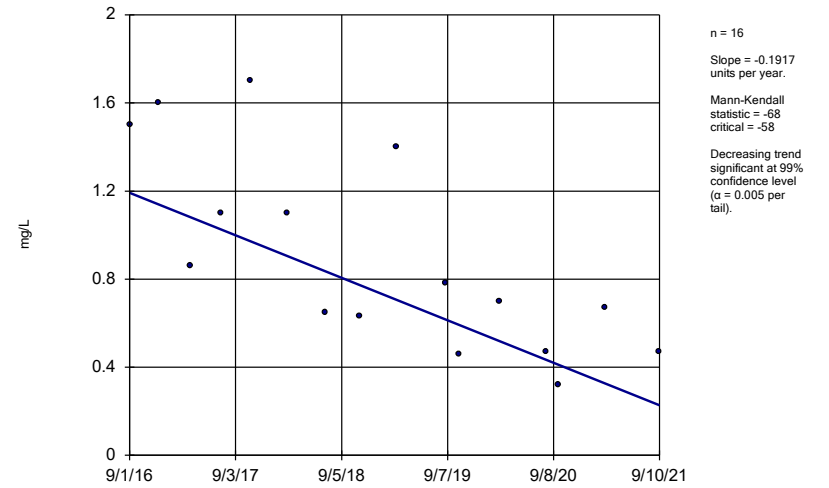
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



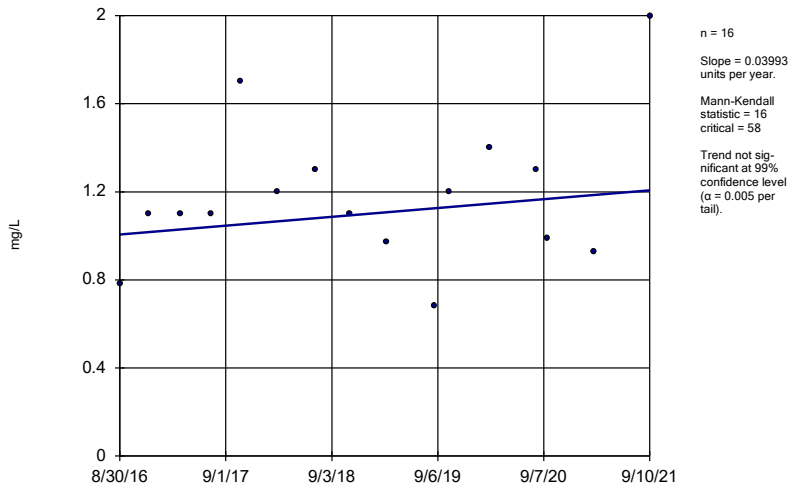
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



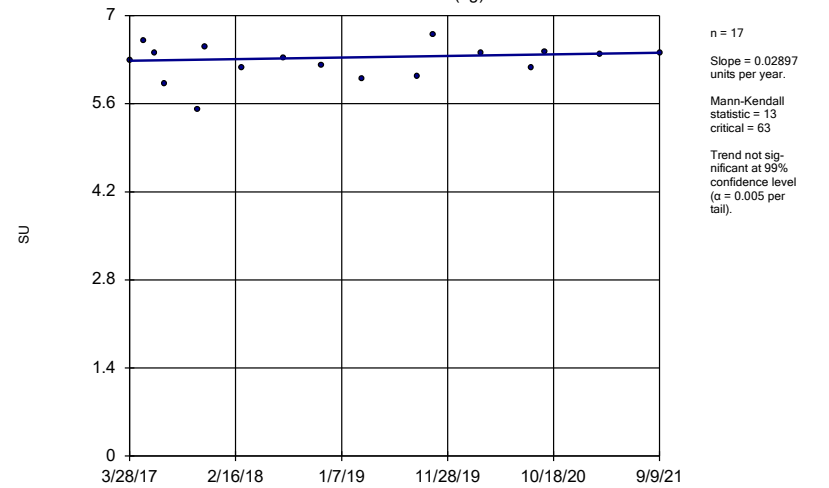
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



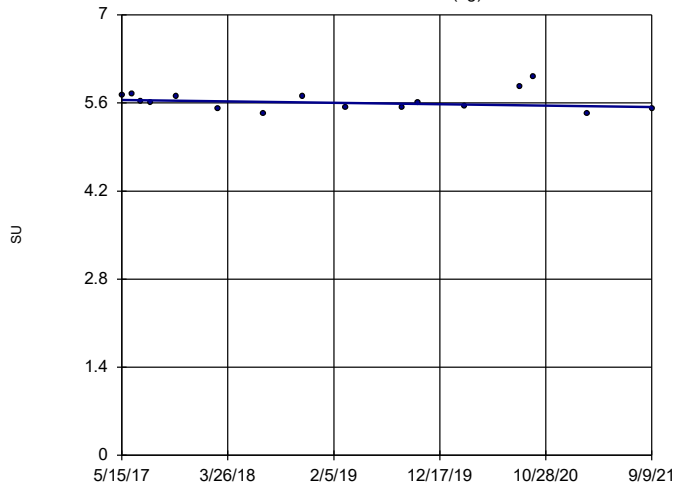
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



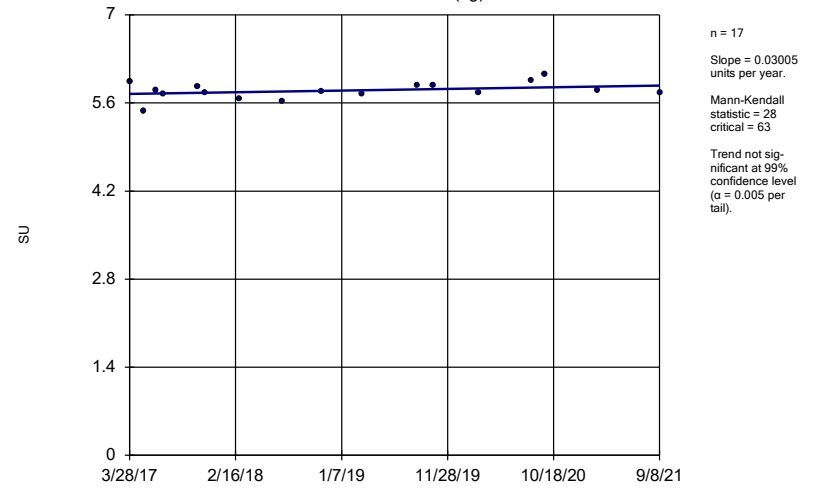
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWA-70A (bg)



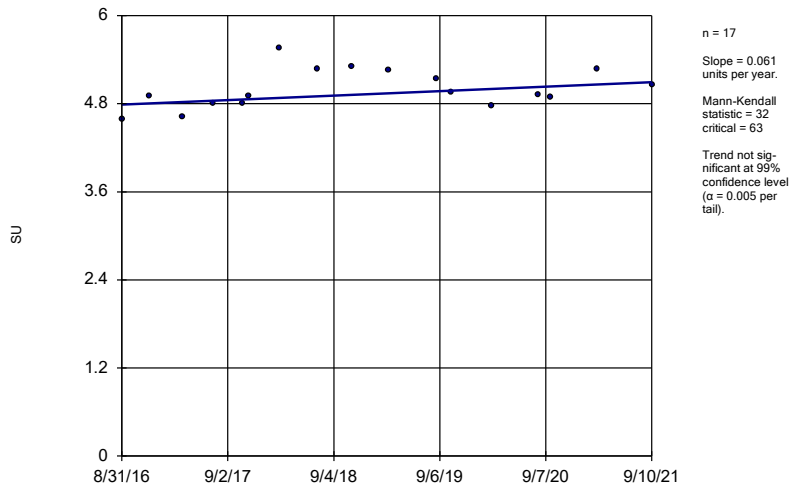
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWA-71 (bg)



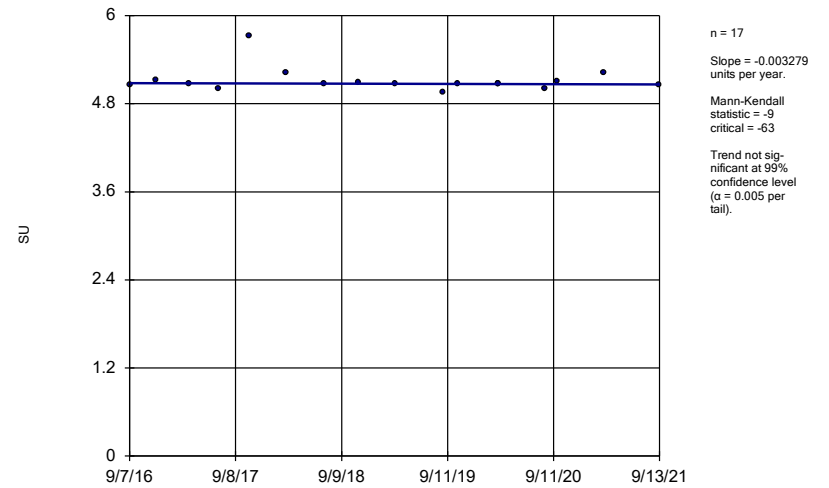
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-10



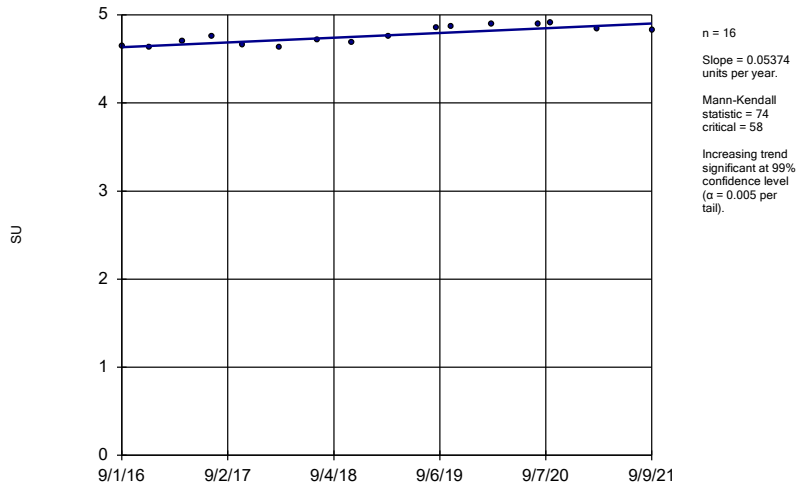
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-17



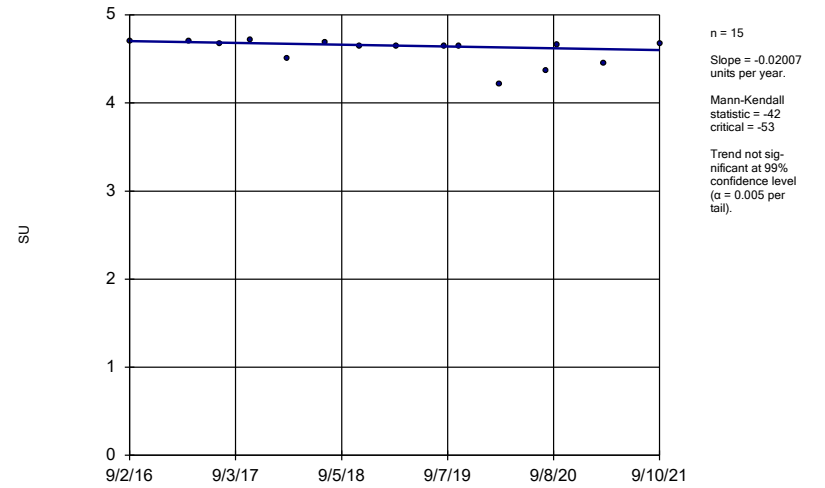
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-19



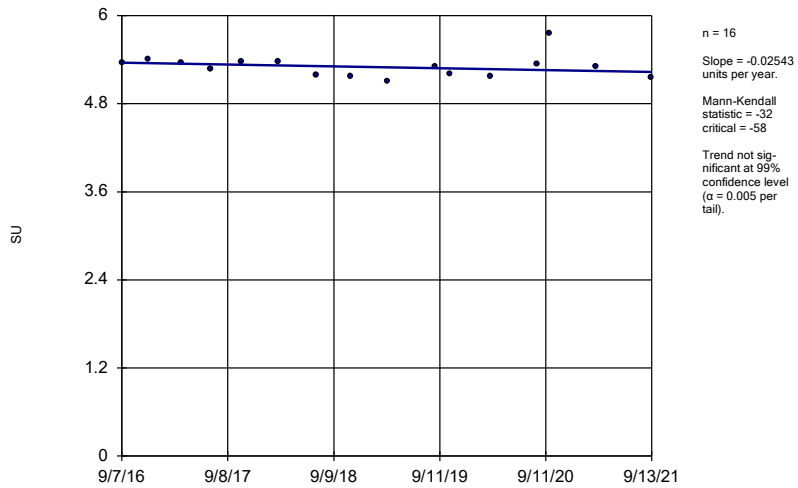
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-20



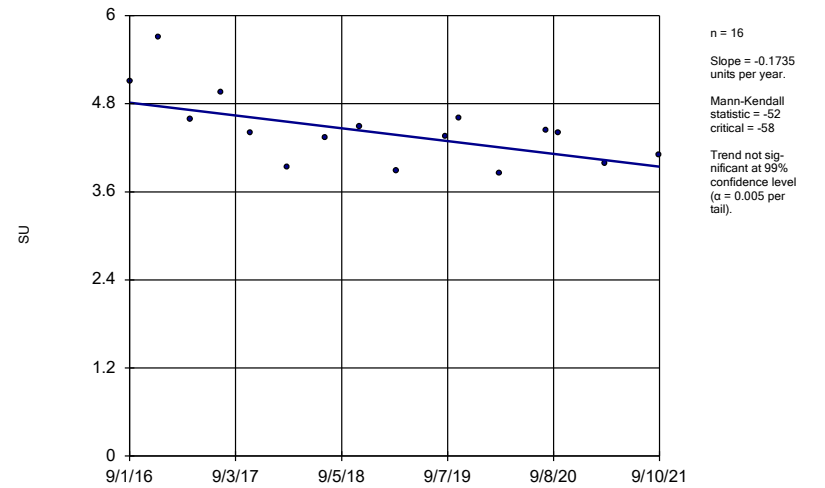
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-42



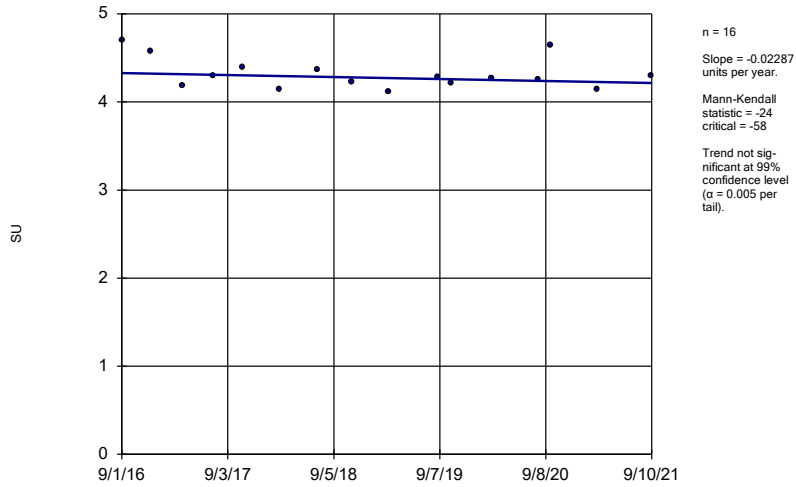
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-47



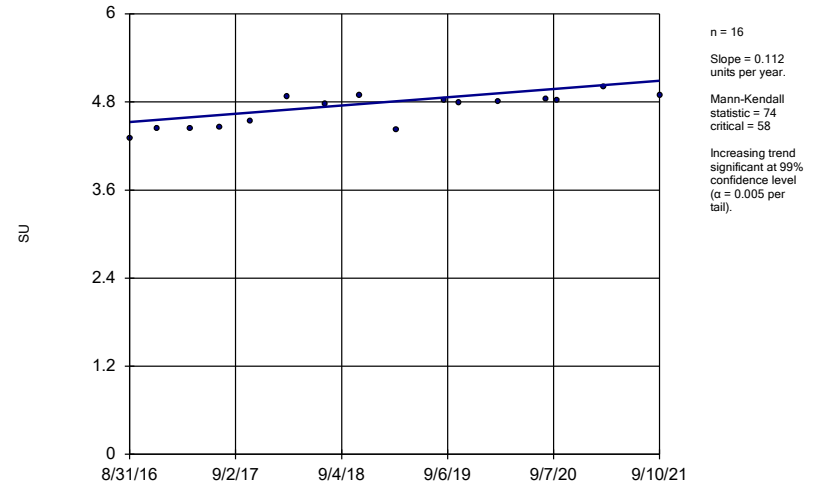
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-48



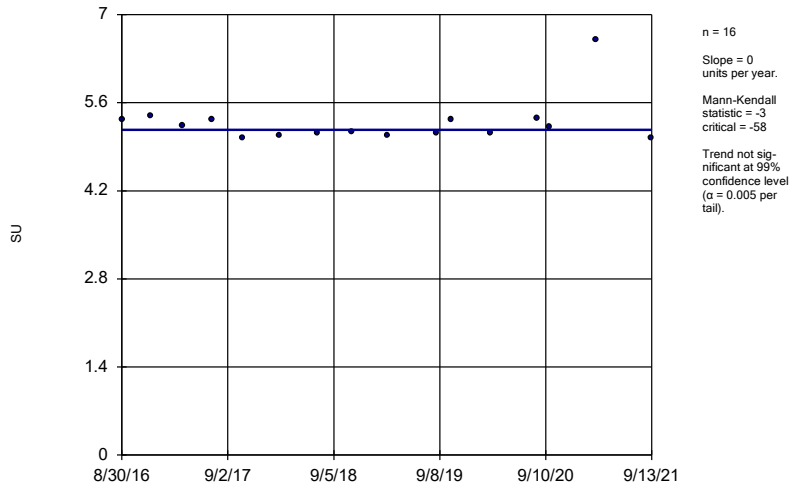
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-5



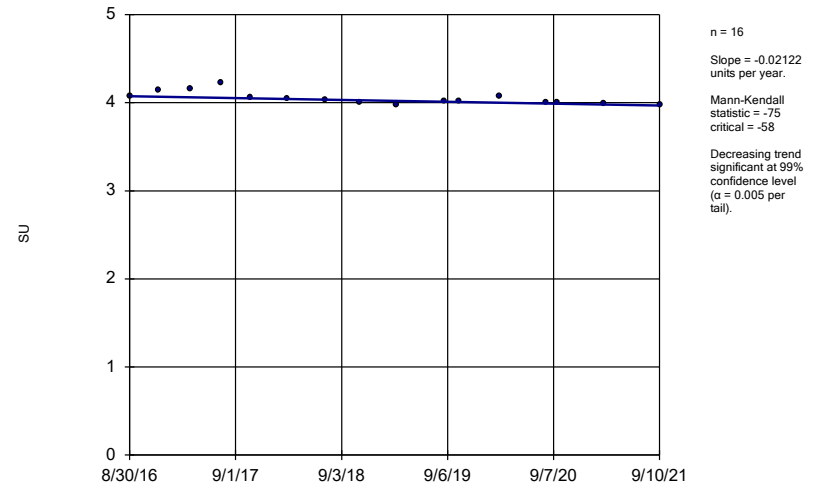
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-8



Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

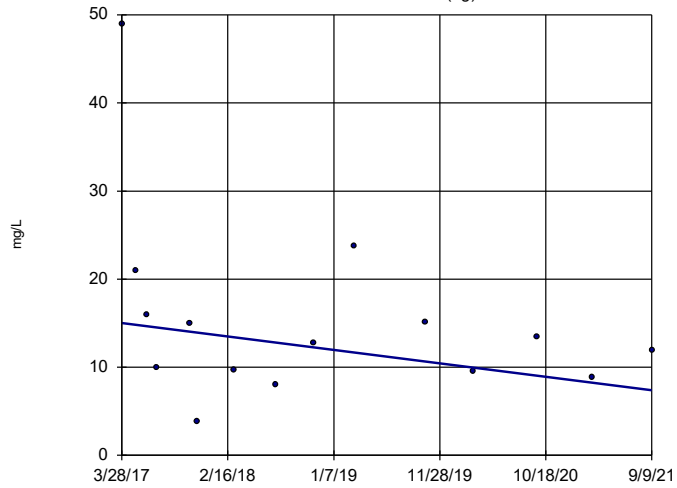
Sen's Slope Estimator DGWC-9



Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)

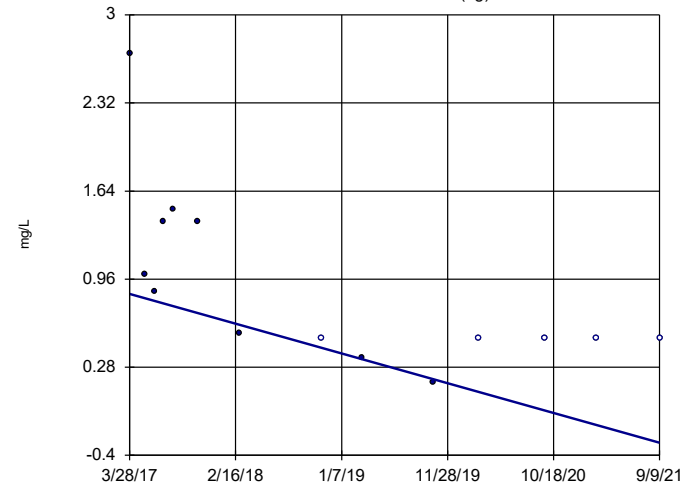


n = 15
 Slope = -1.708
 units per year.
 Mann-Kendall
 statistic = -31
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-70A (bg)

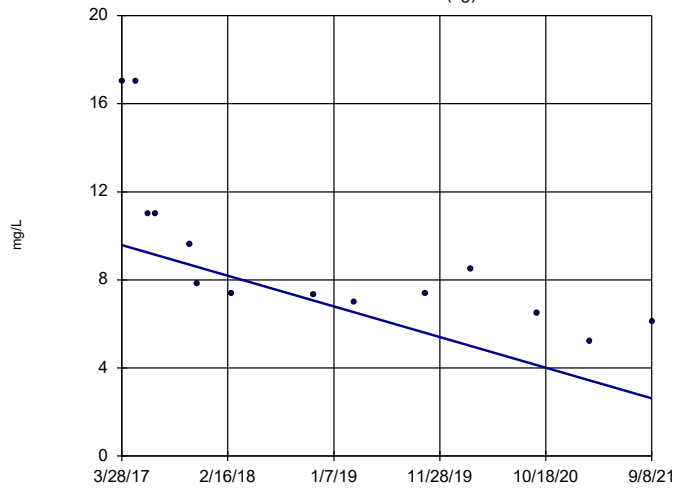


n = 14
 Slope = -0.2582
 units per year.
 Mann-Kendall
 statistic = -50
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

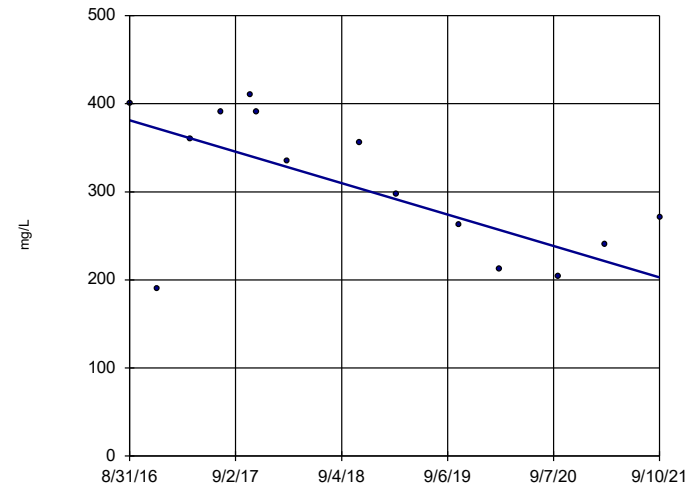


n = 14
 Slope = -1.564
 units per year.
 Mann-Kendall
 statistic = -72
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

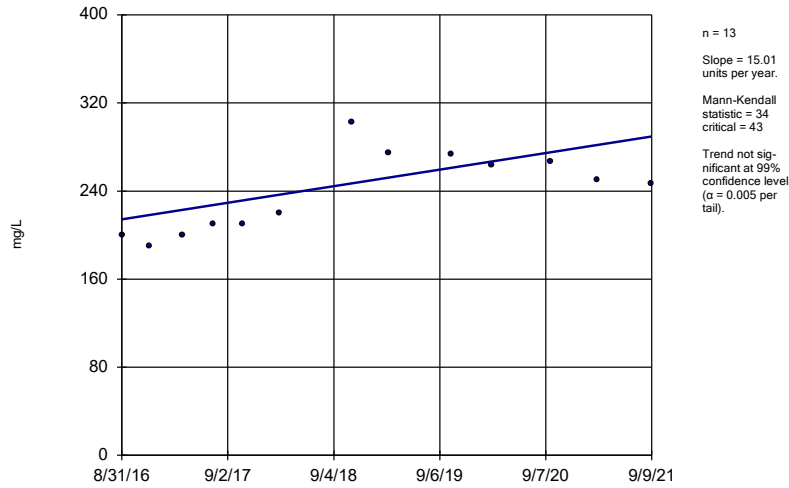
DGWC-10



n = 14
 Slope = -35.48
 units per year.
 Mann-Kendall
 statistic = -42
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

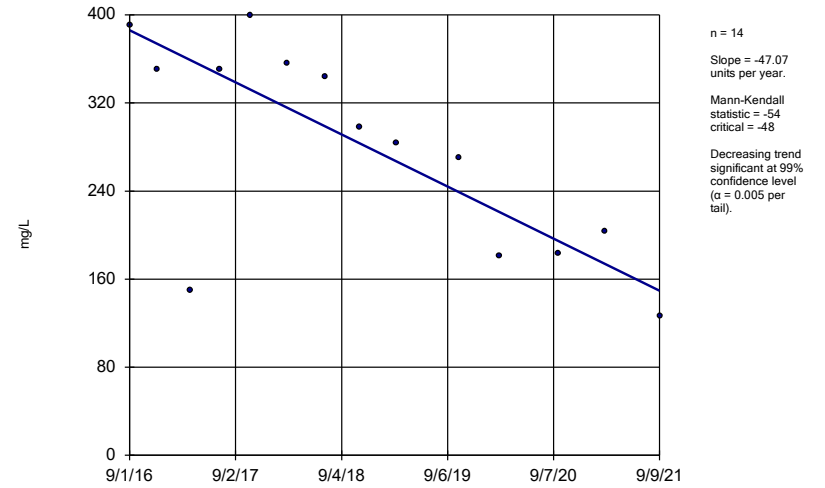
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-11



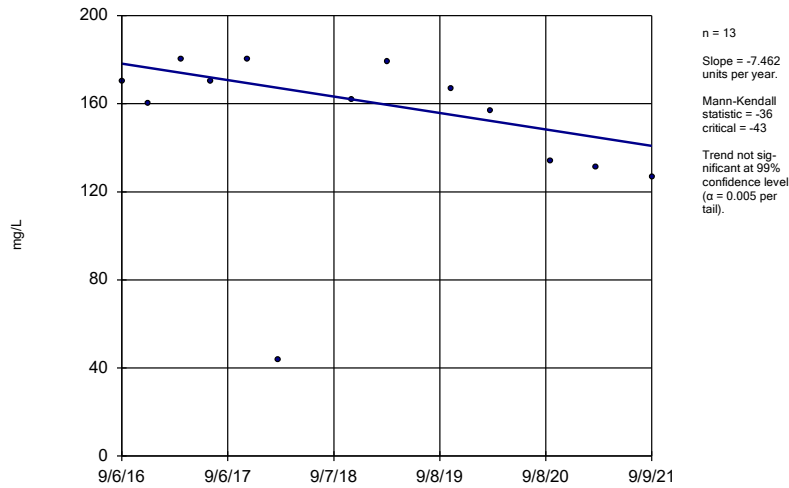
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-12



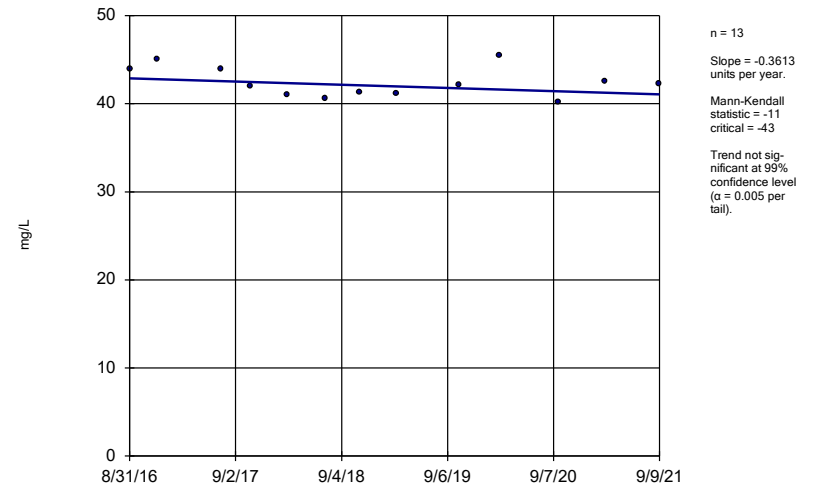
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-13



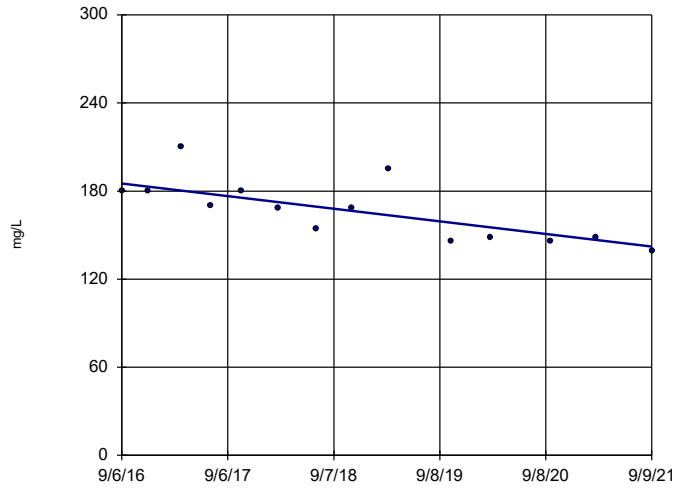
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-14



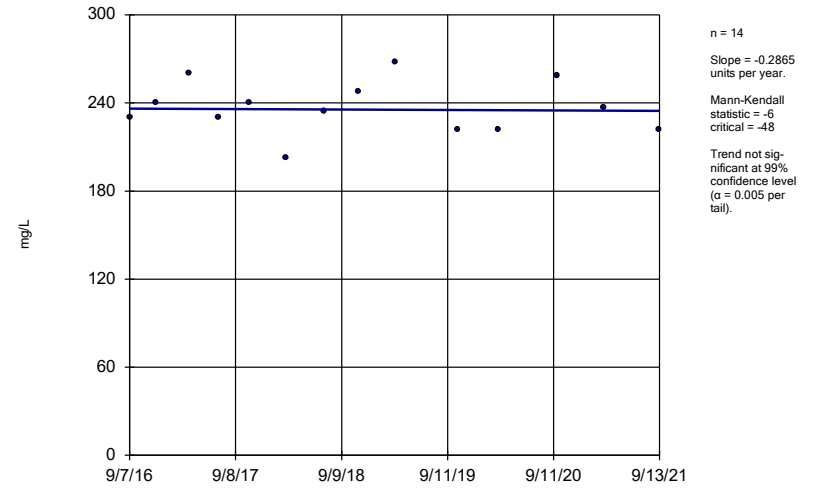
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-15



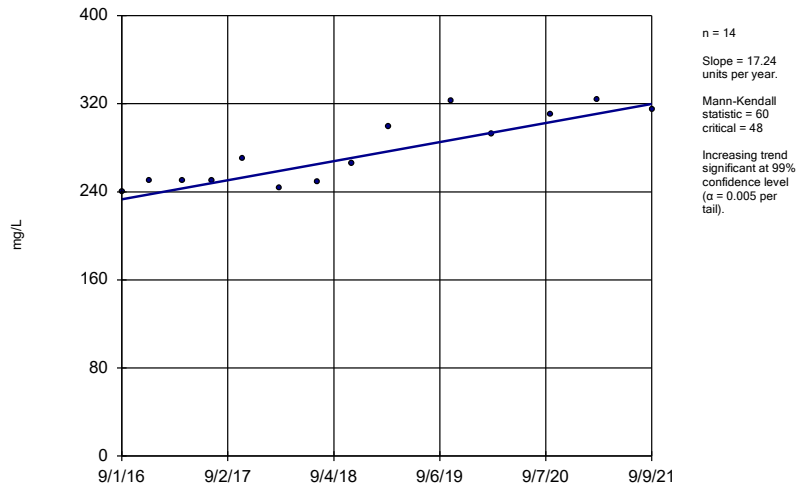
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-17



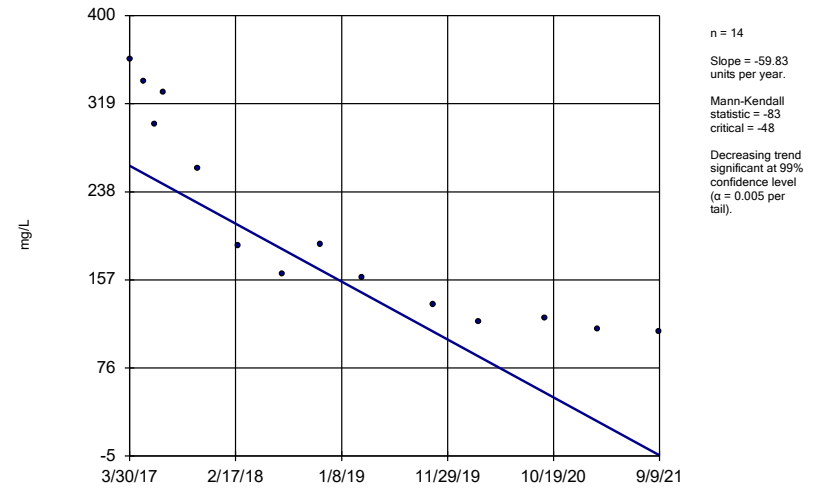
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-19



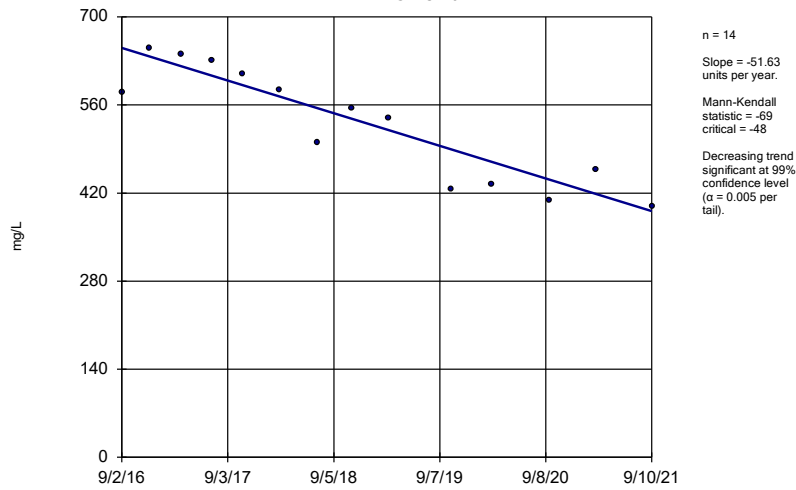
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-2



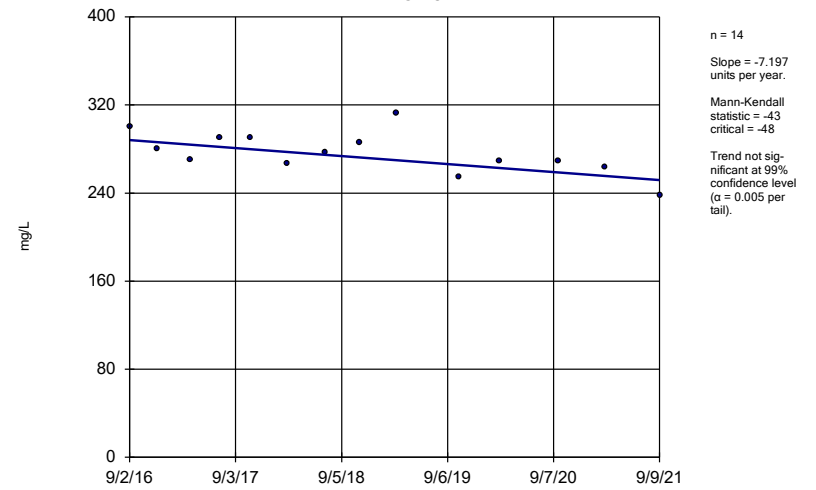
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



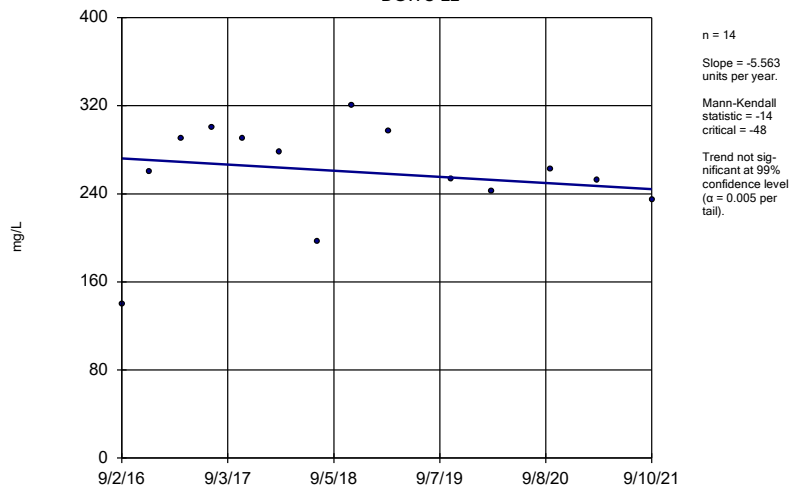
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



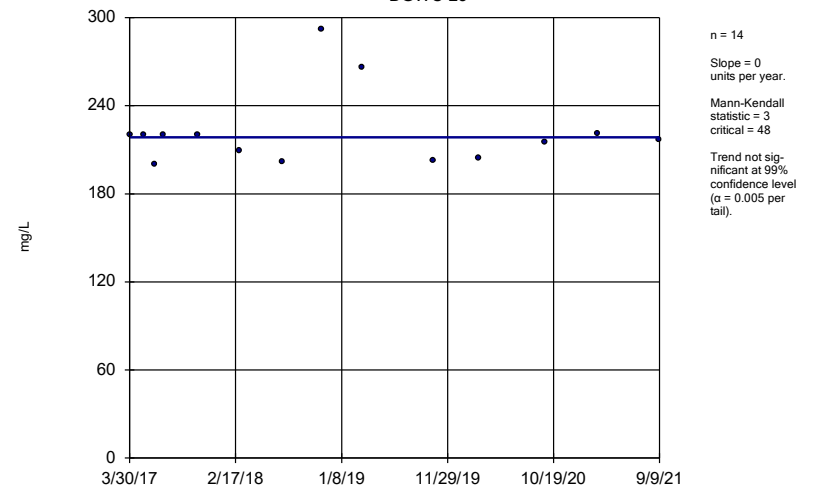
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



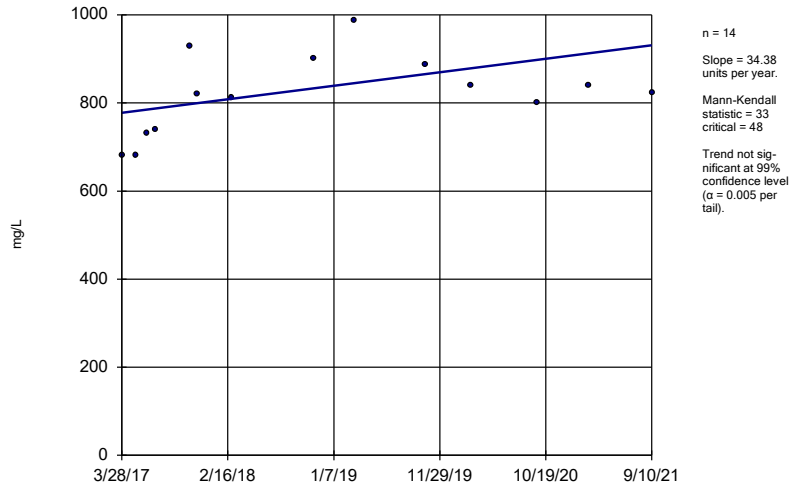
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



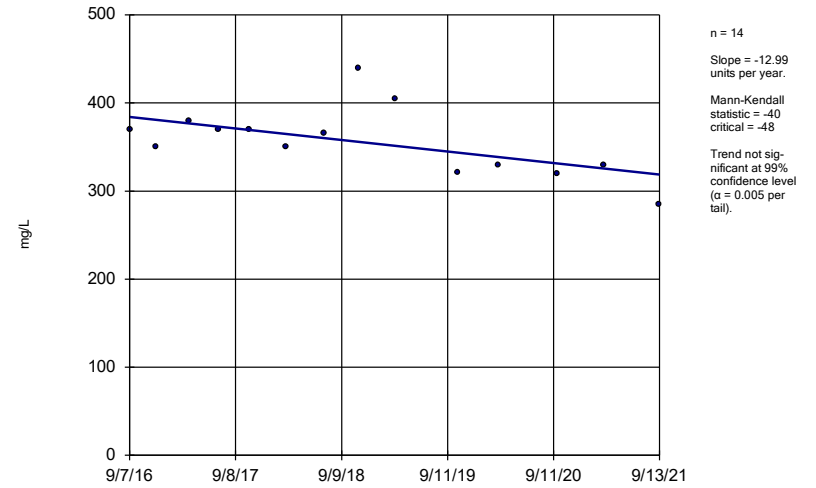
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



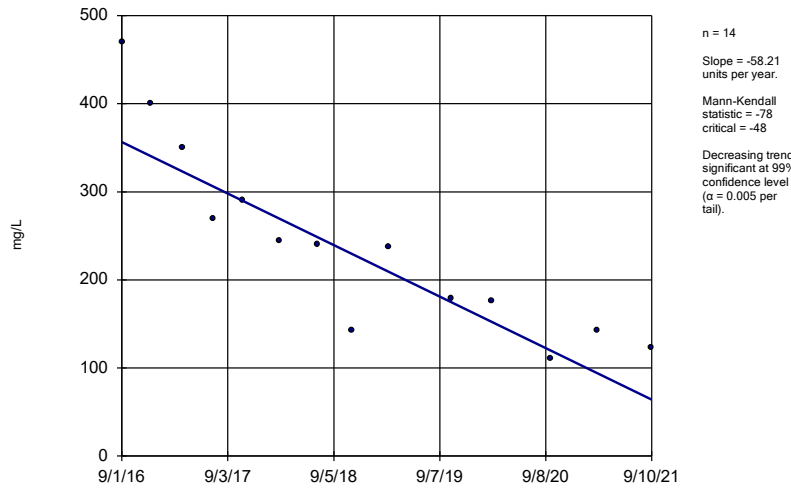
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-42



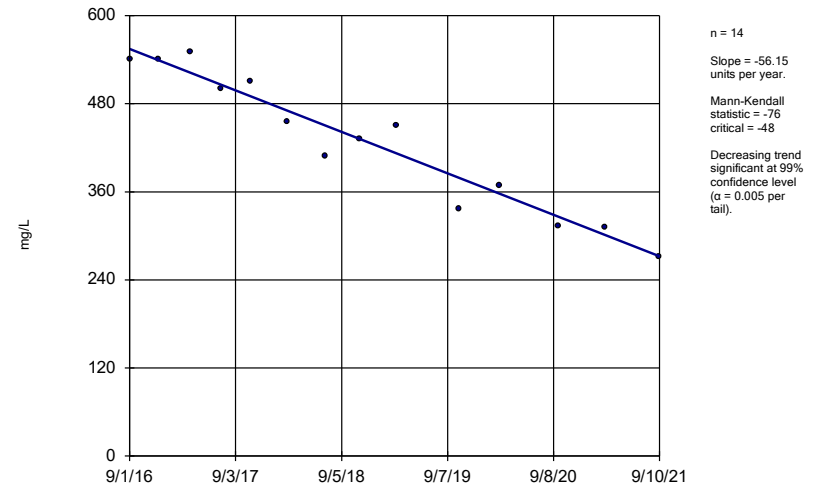
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



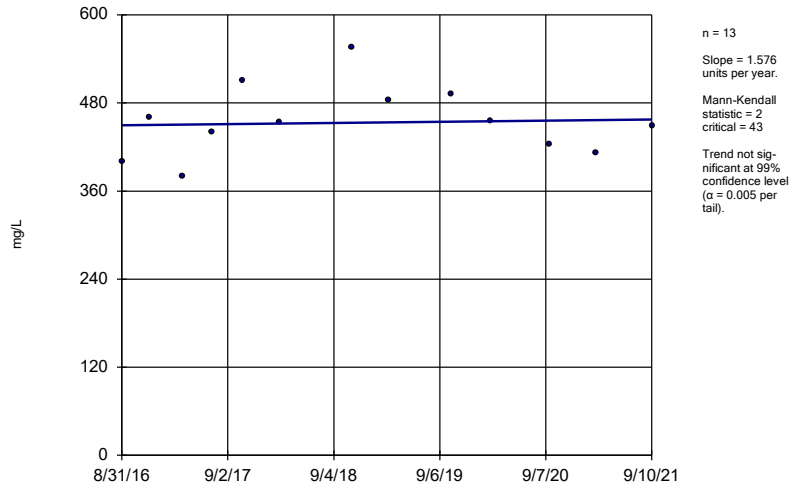
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



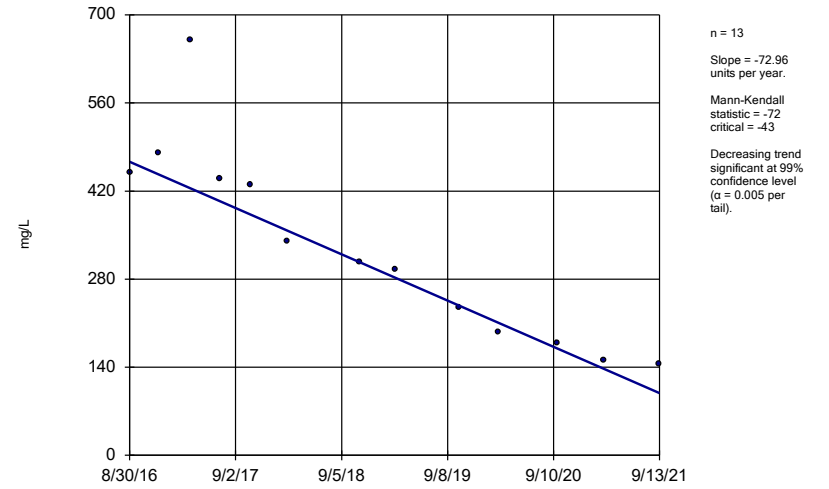
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



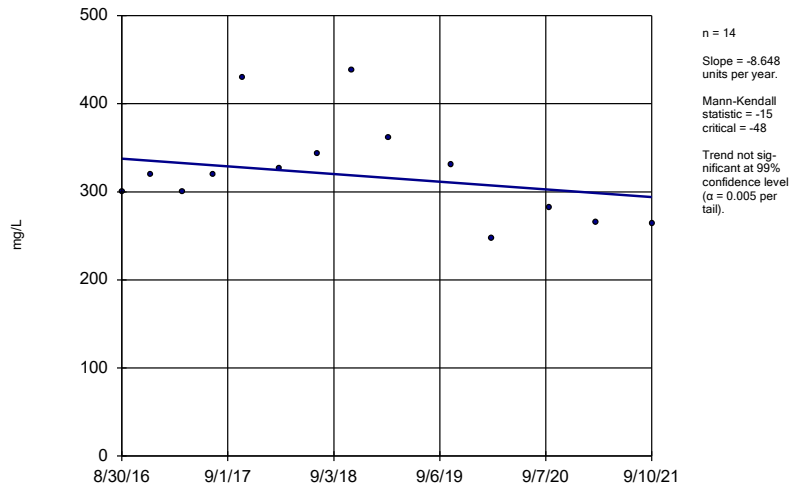
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-8



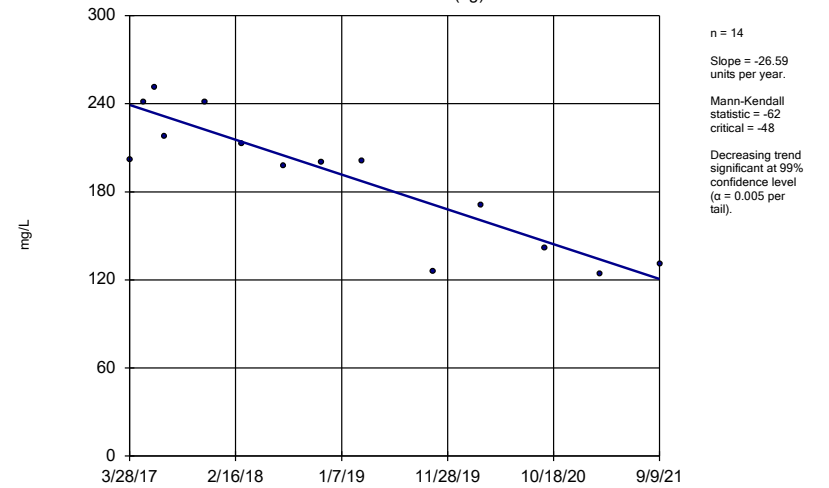
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9

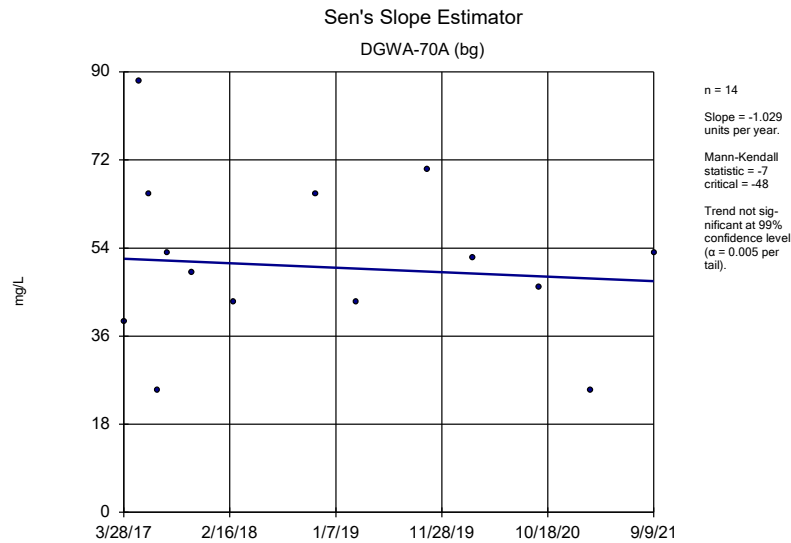


Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

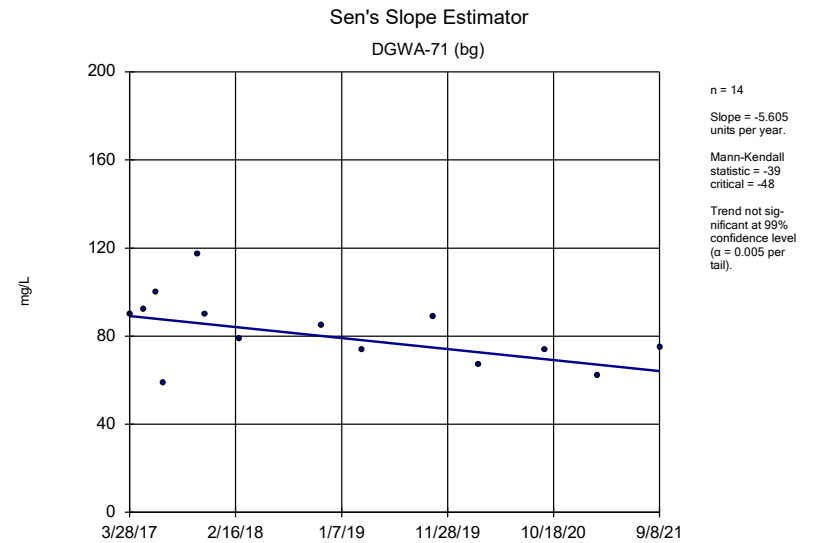
Sen's Slope Estimator
DGWA-53 (bg)



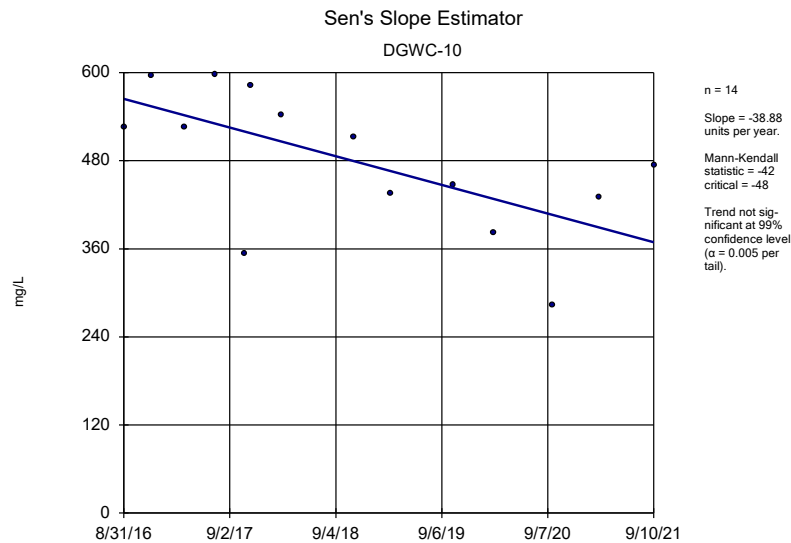
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP



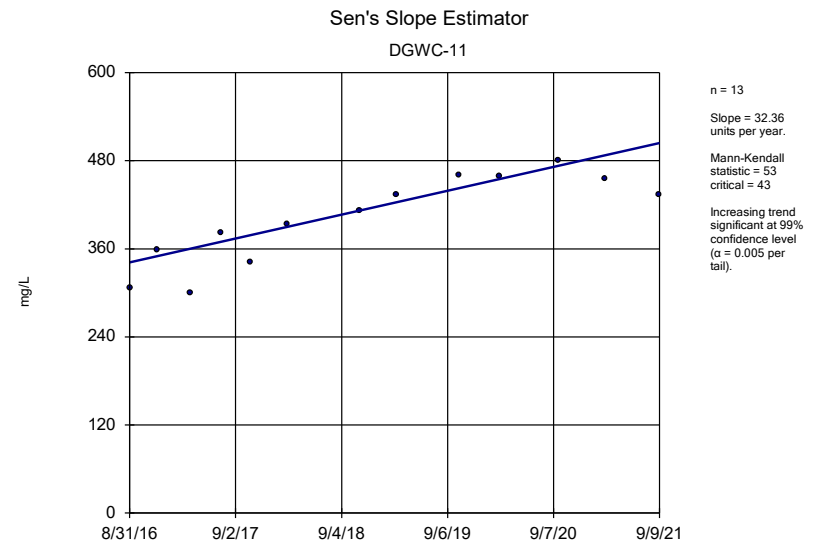
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

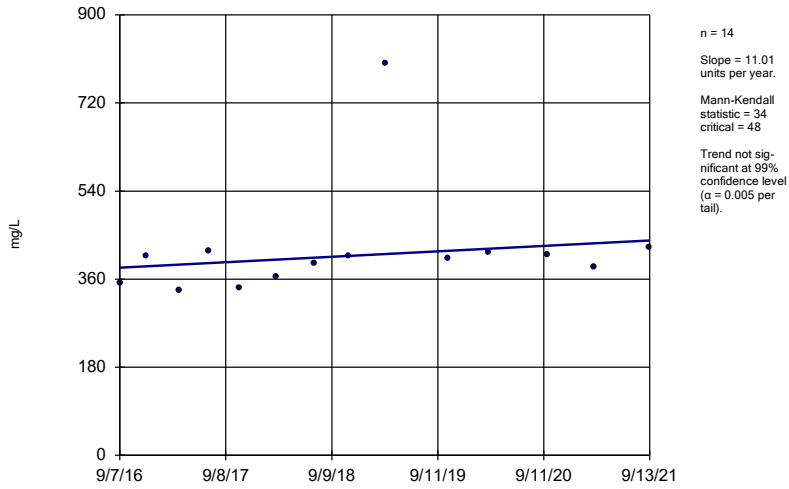


Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP



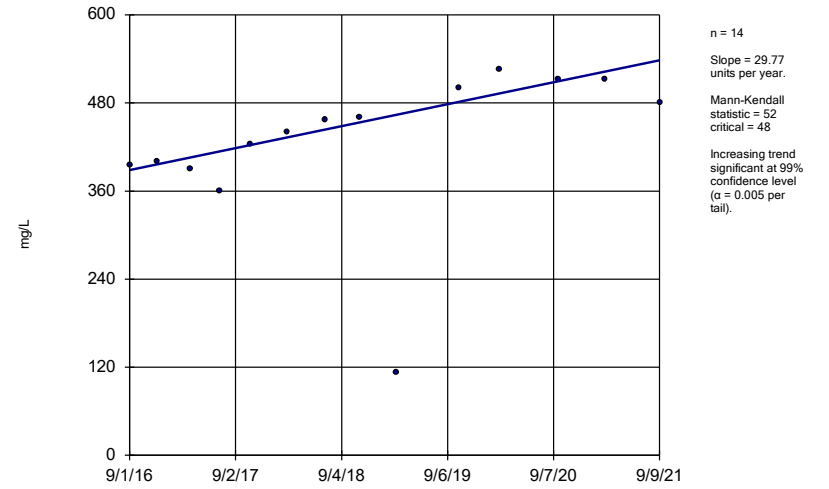
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-17



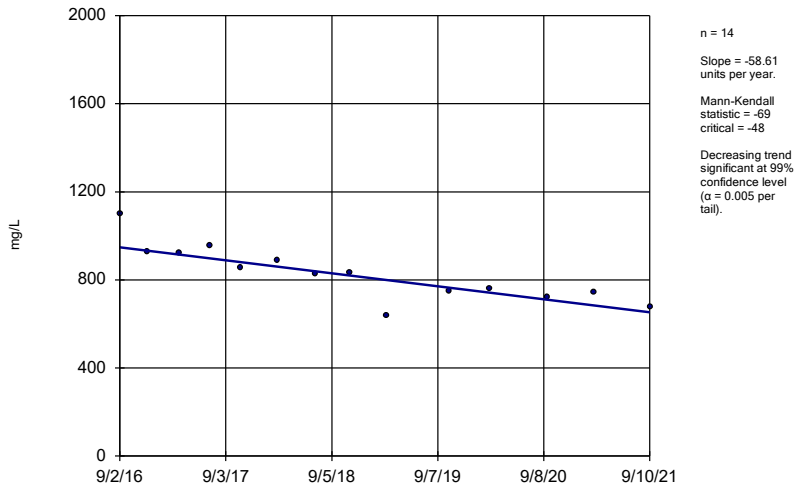
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-19



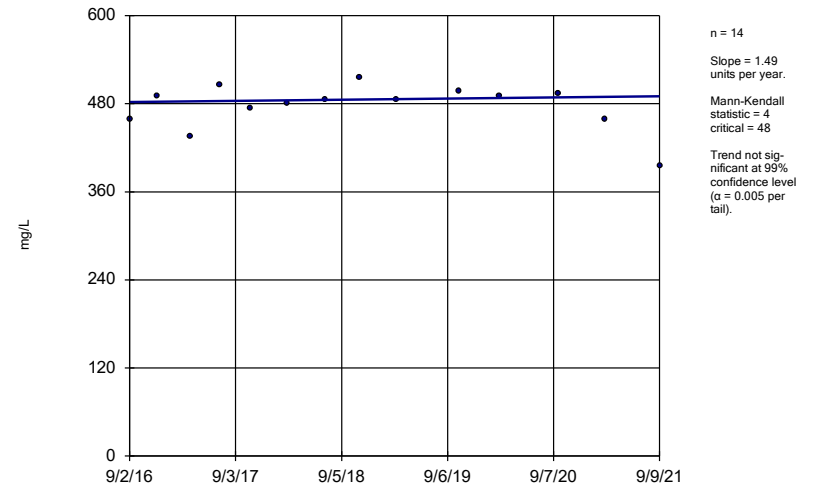
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-20



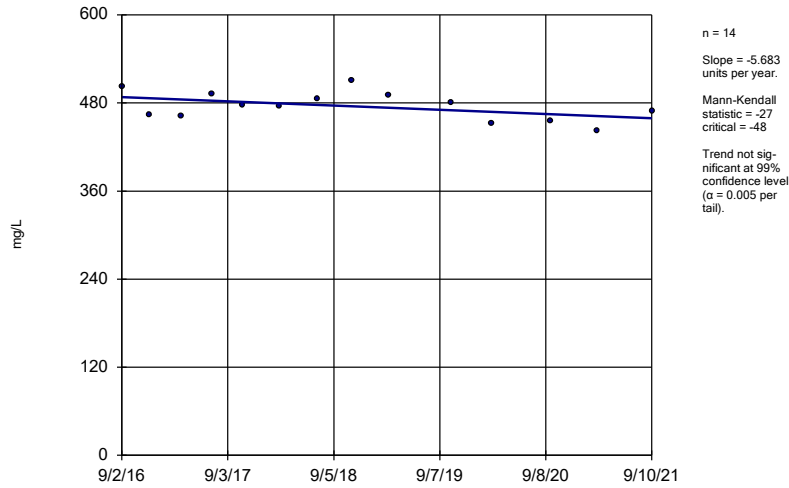
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-21



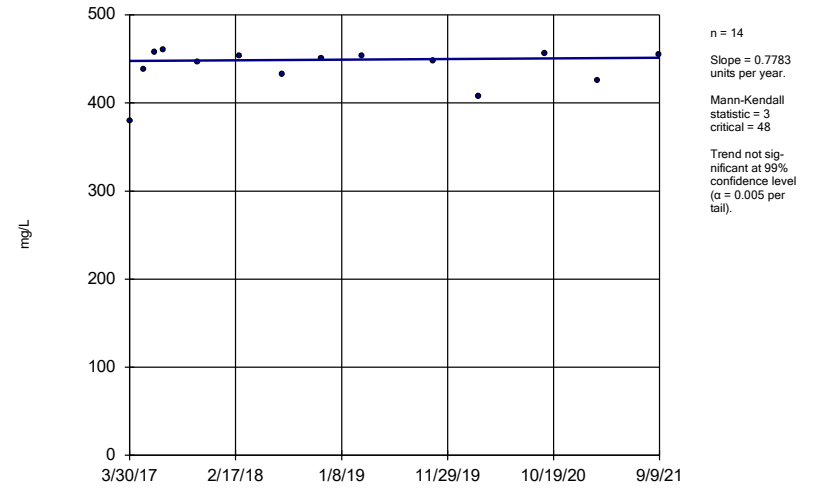
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



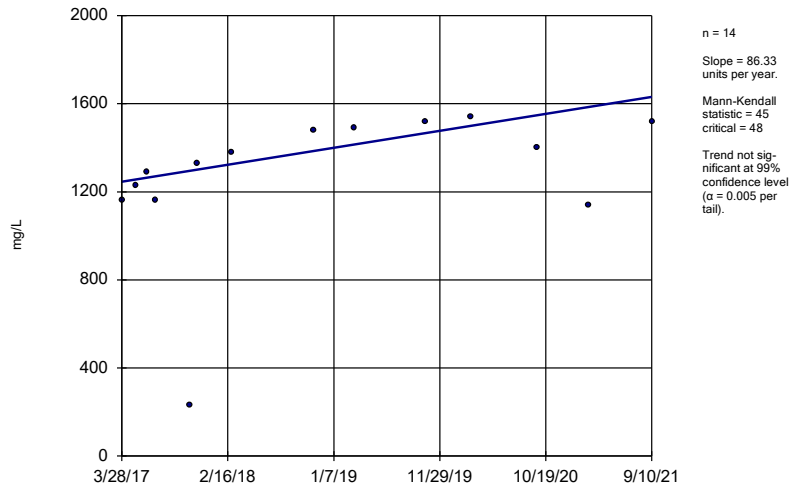
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



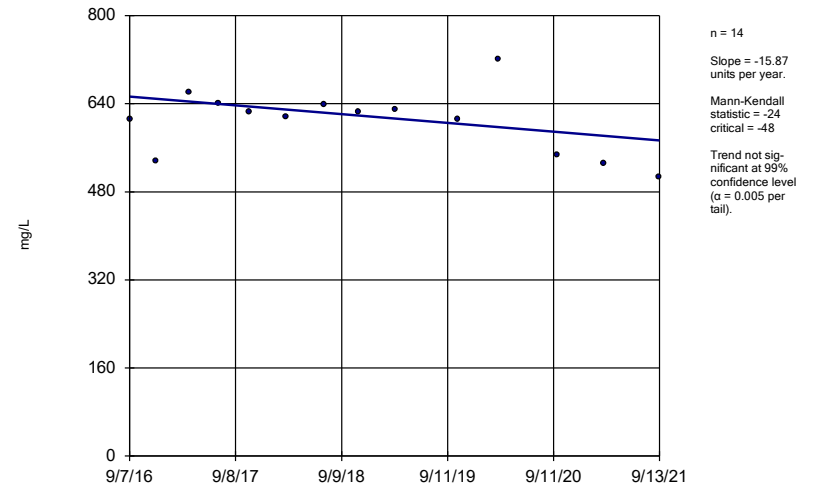
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



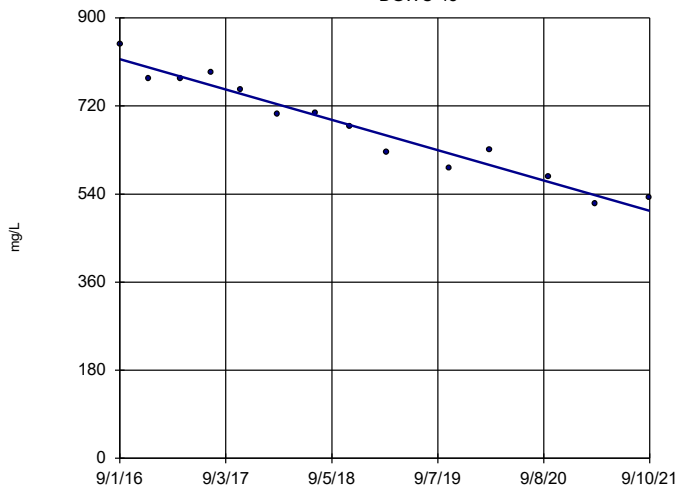
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-42



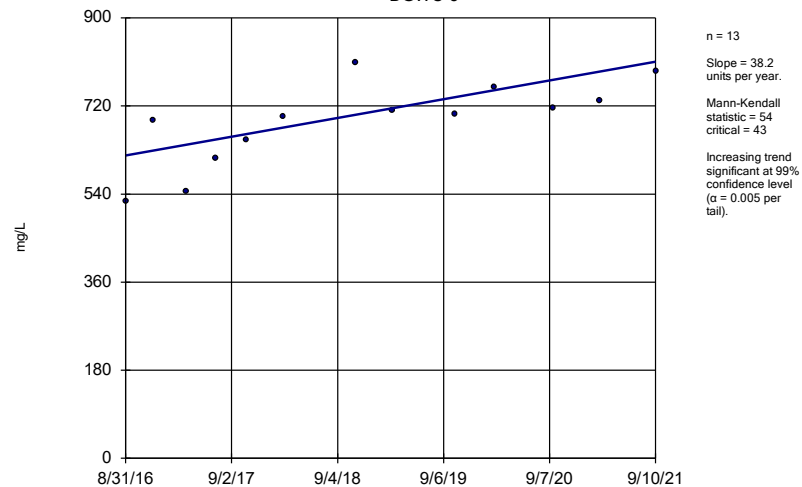
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



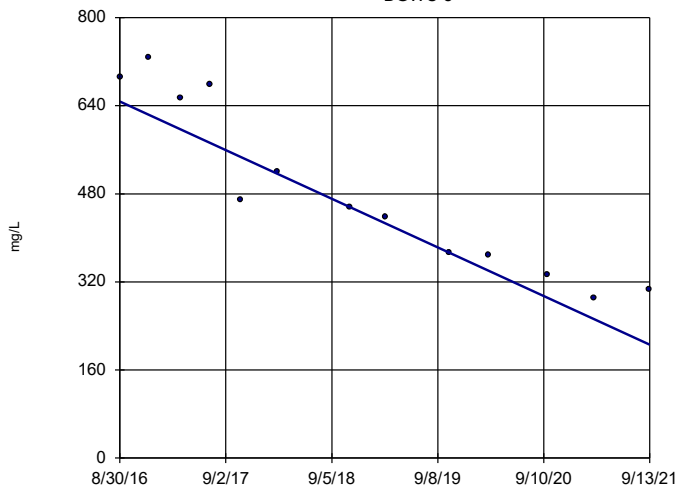
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



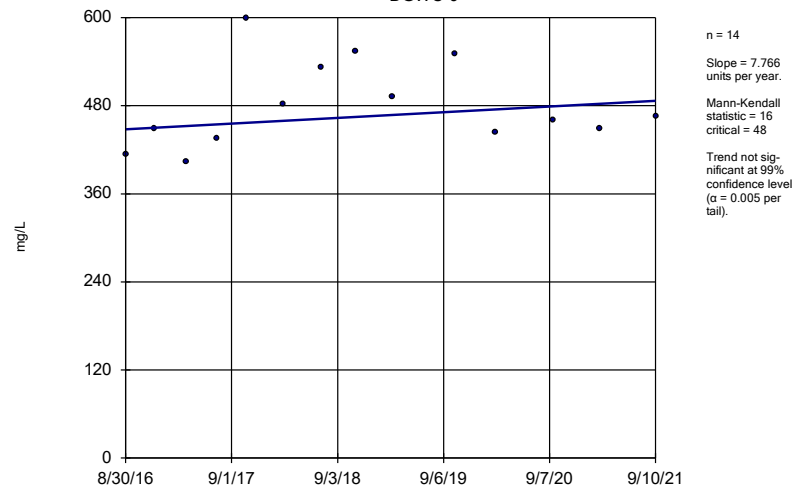
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:23 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	81.82	n/a	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	44	n/a	n/a	0	n/a	n/a	0.1047	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	45	n/a	n/a	62.22	n/a	n/a	0.09944	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	44	n/a	n/a	93.18	n/a	n/a	0.1047	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	43	n/a	n/a	60.47	n/a	n/a	0.1102	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.605	n/a	n/a	n/a	46	1.041	0.3523	0	None	x^(1/3)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	48	n/a	n/a	52.08	n/a	n/a	0.08526	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	44	n/a	n/a	86.36	n/a	n/a	0.1047	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	44	n/a	n/a	63.64	n/a	n/a	0.1047	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)

FIGURE G.

PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		5.61	5.61
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		5.61	5.61
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.001
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.041
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE I.

Federal Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.04	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.04	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No	14	0.002443	0.00107	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No	4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No	4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No	4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No	5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No	5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No	4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No	4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No	14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No	16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No	15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No	15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No	15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No	15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No	15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No	14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No	15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No	15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No	15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No	14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No	14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No	15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No	4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No	4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No	6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No	4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No	15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No	15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.015	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.015	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.015	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.015	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.015	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.015	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.04	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.04	No	4	0.01325	0.0015	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.04	No	4	0.038	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.029	0.021	0.04	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.04	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.04	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.04	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.04	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.04	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.04	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.04	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.04	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.04	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.04	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.04	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.04	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.04	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.04	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.04	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.04	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.04	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.04	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.1	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.1	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.1	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.1	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.1	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

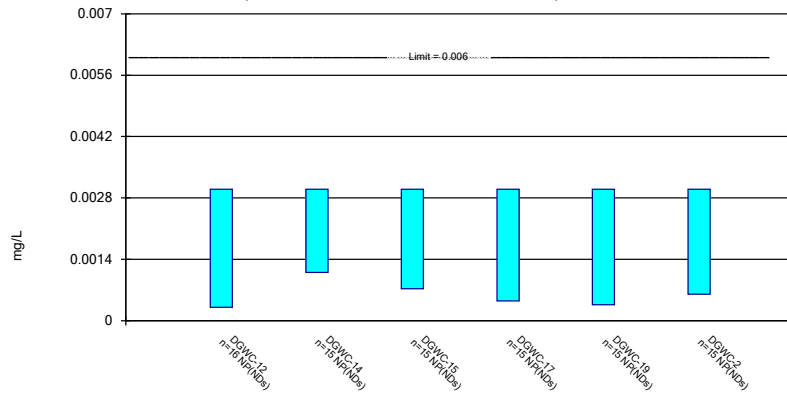
Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

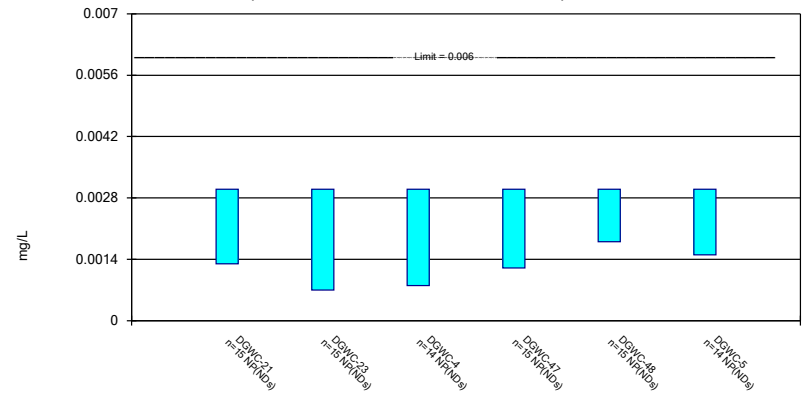
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Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
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Non-Parametric Confidence Interval

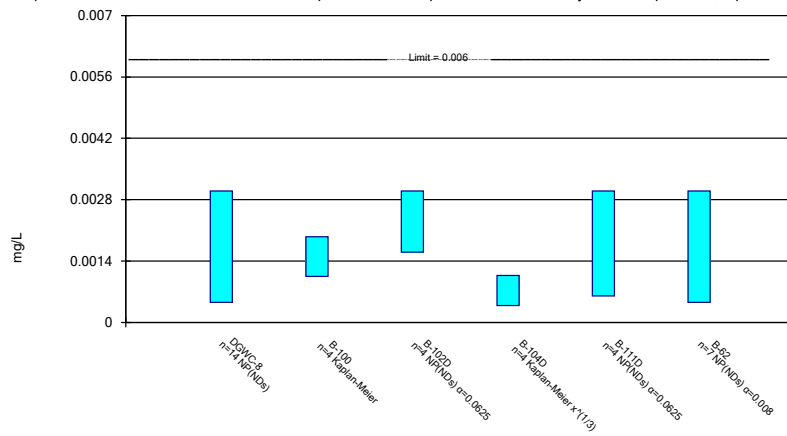
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Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

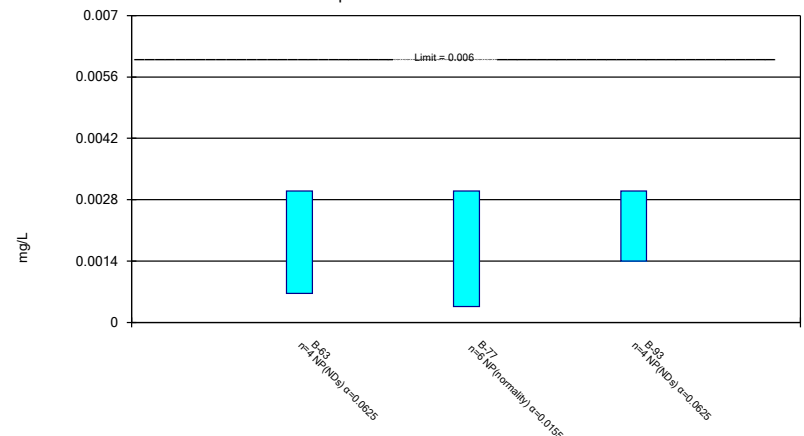
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Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

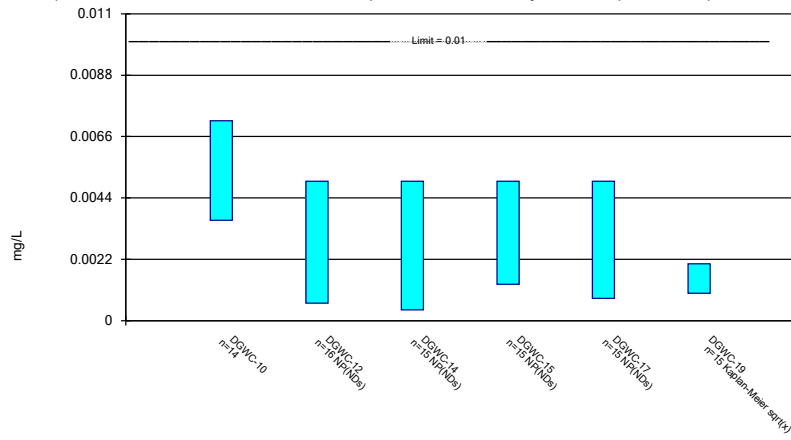
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

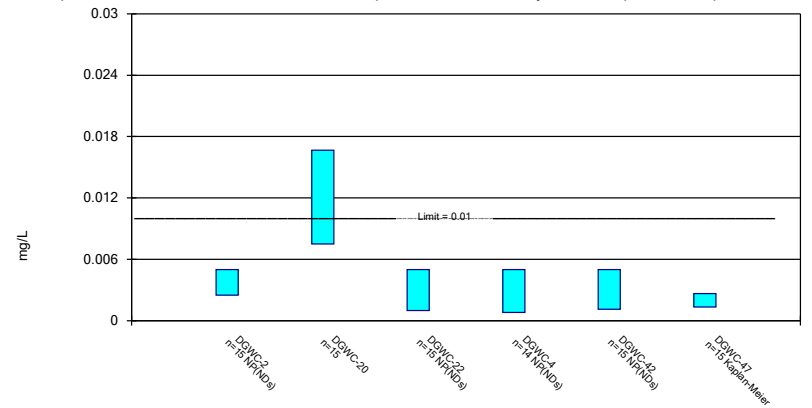
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Constituent: Arsenic Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

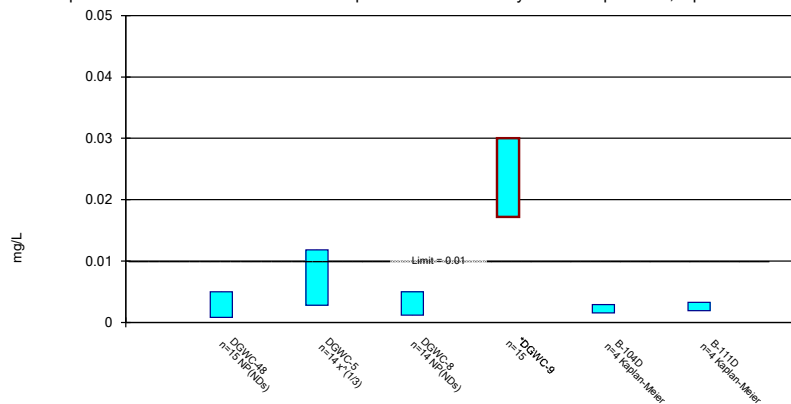
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

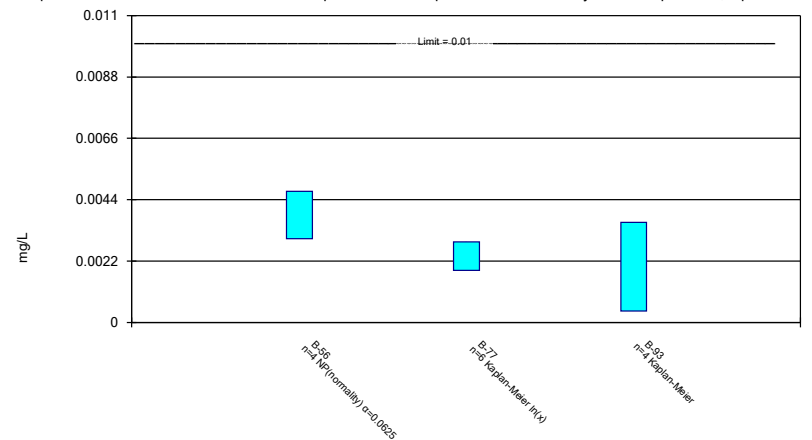
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

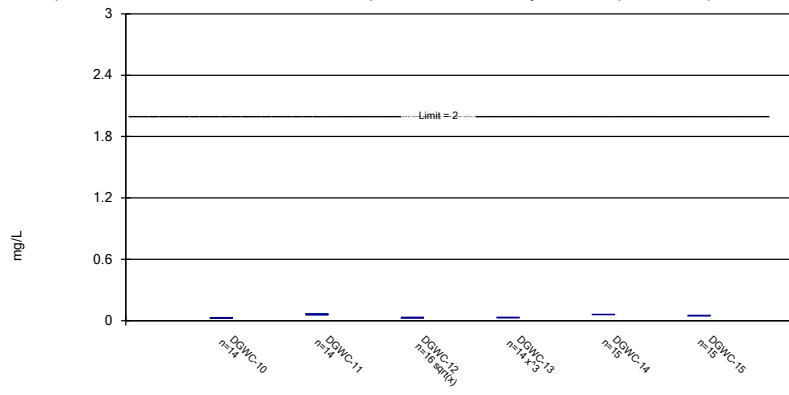
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

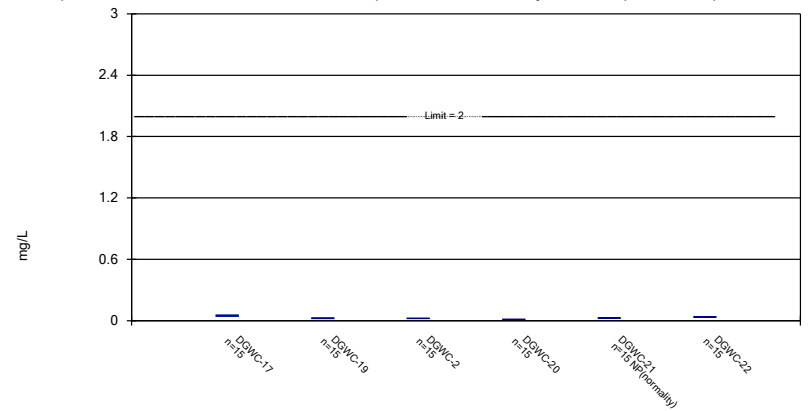
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Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

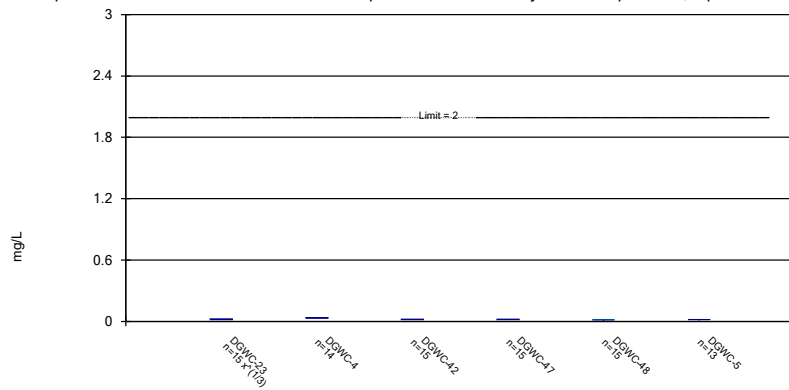
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

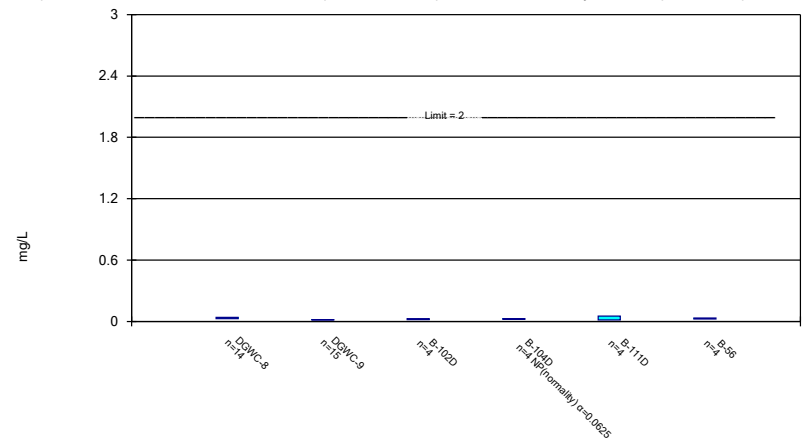
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

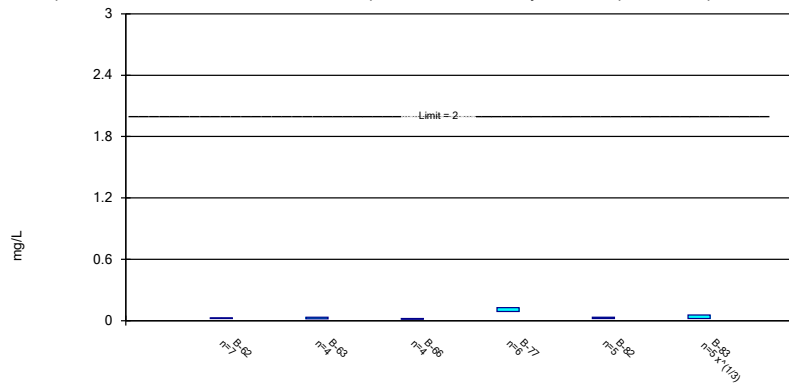
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Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

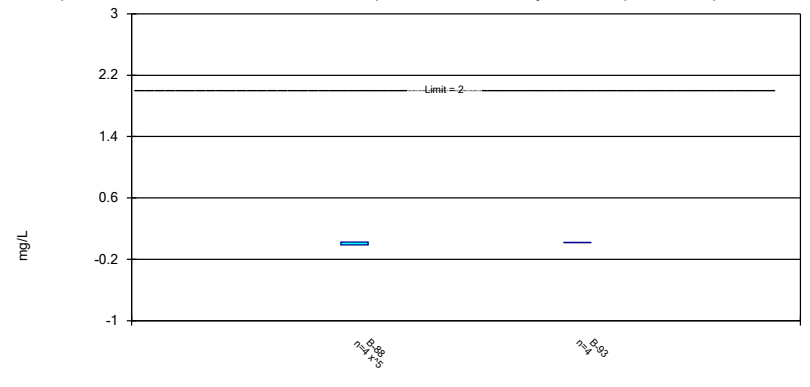
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

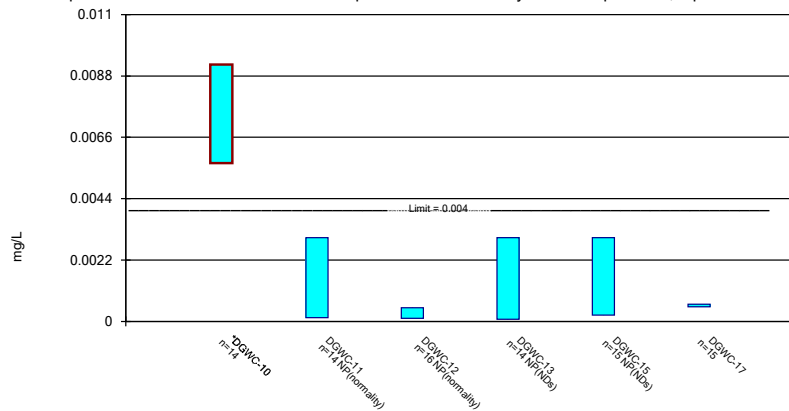
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

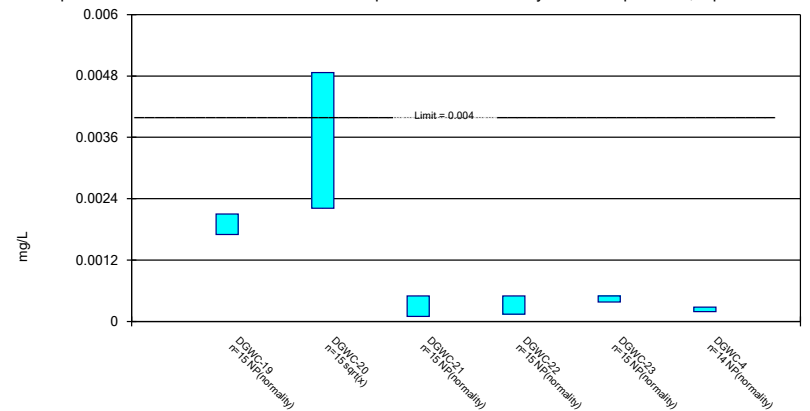
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

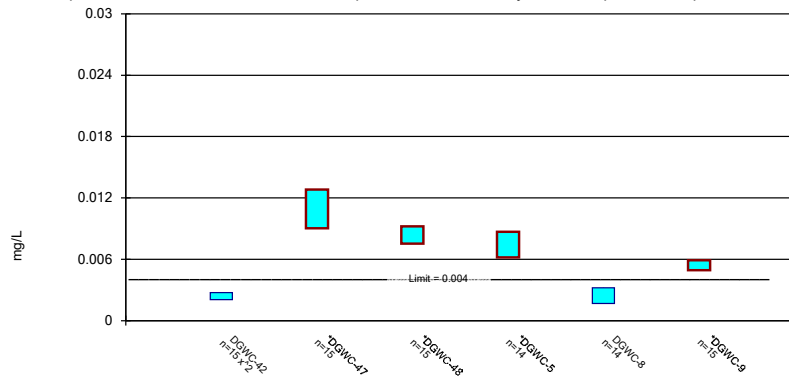
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

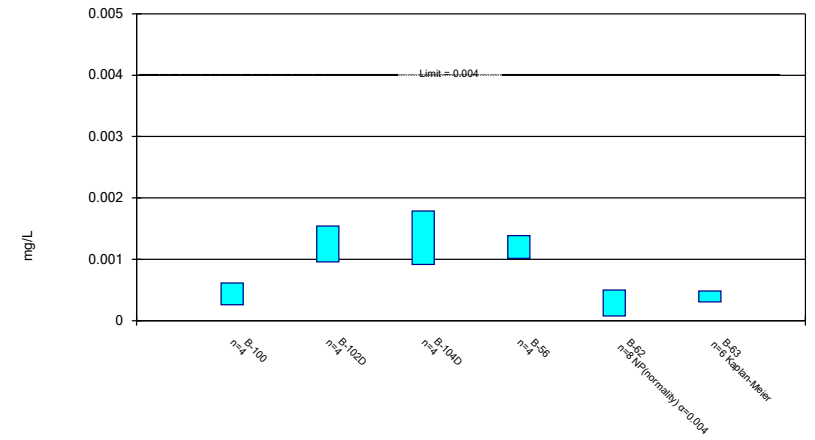
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

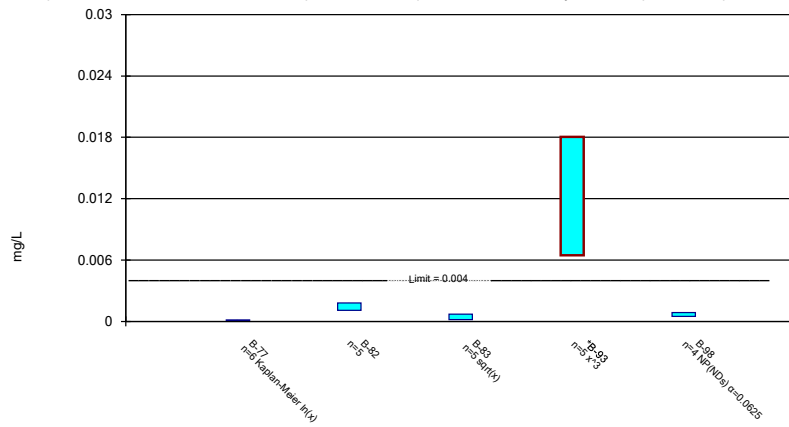
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

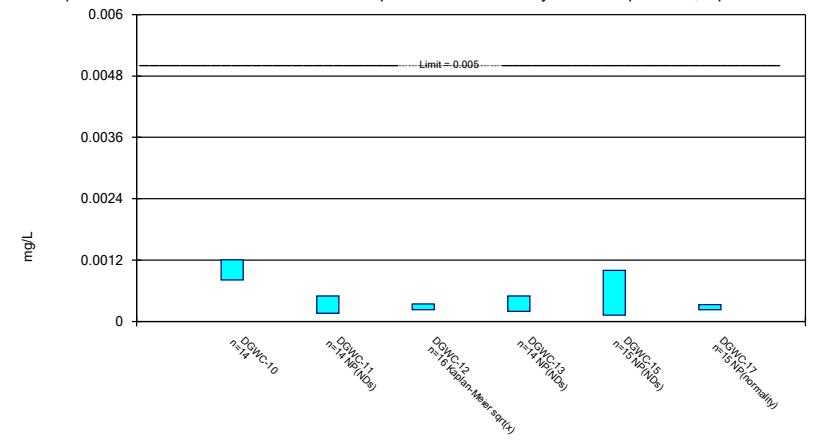
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Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

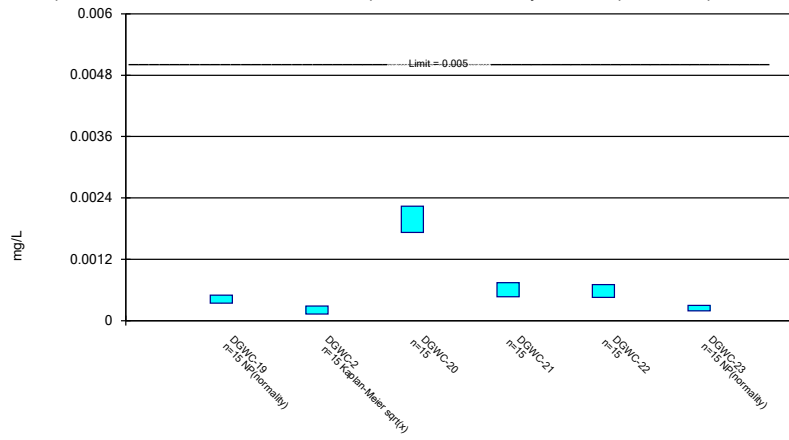
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

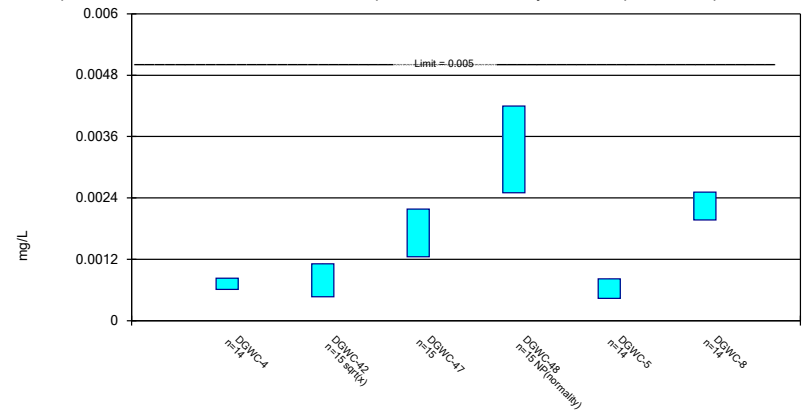
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

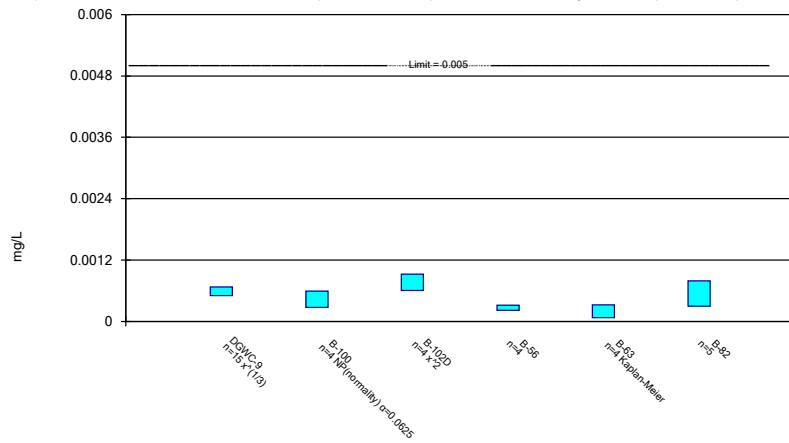
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

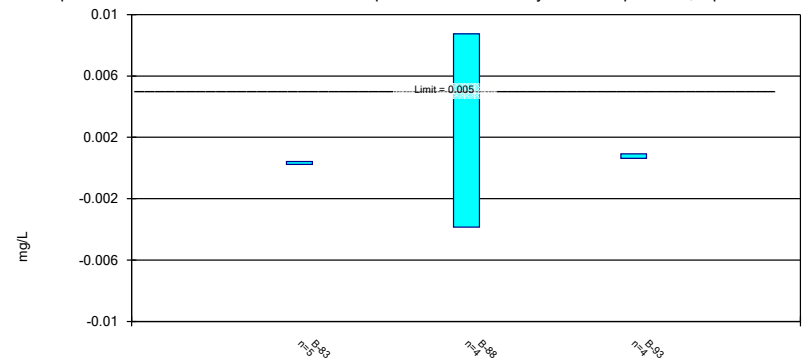
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Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

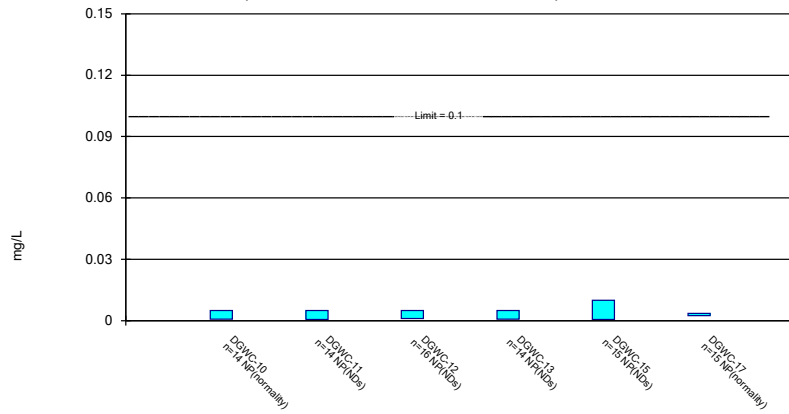
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Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

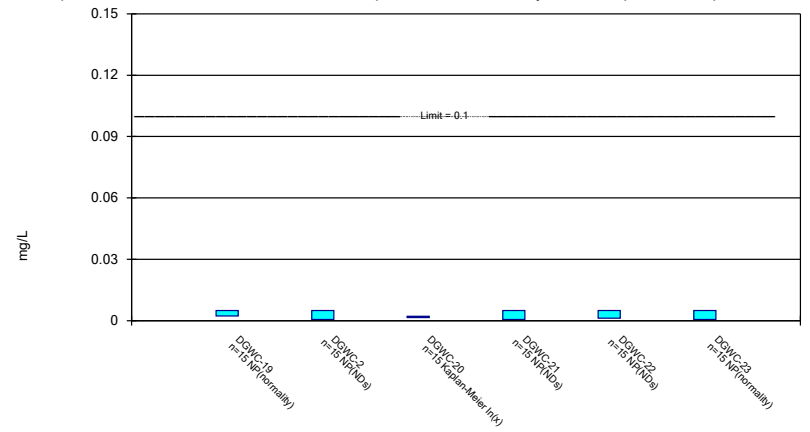
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

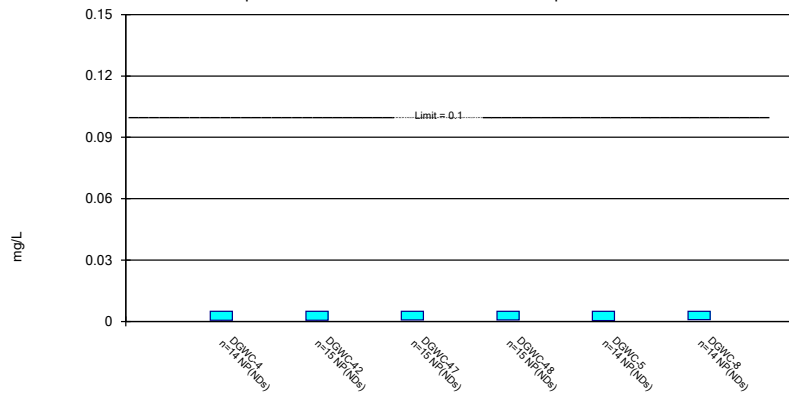
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

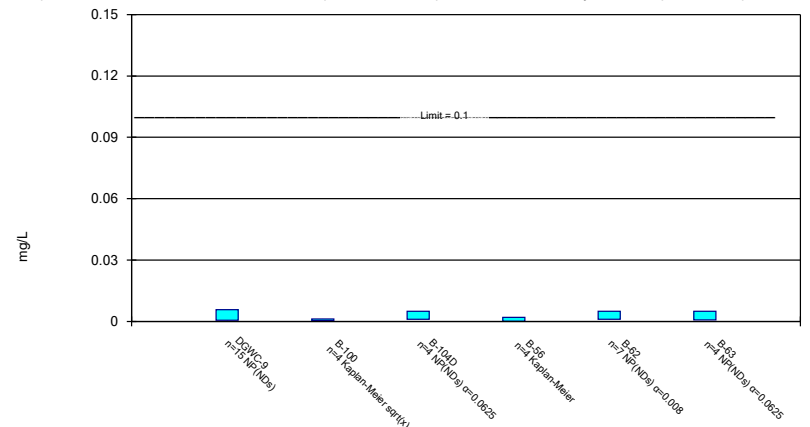
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Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

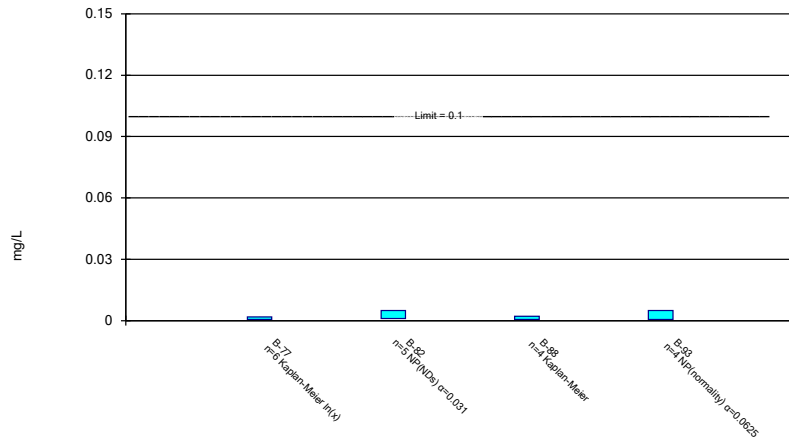
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Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

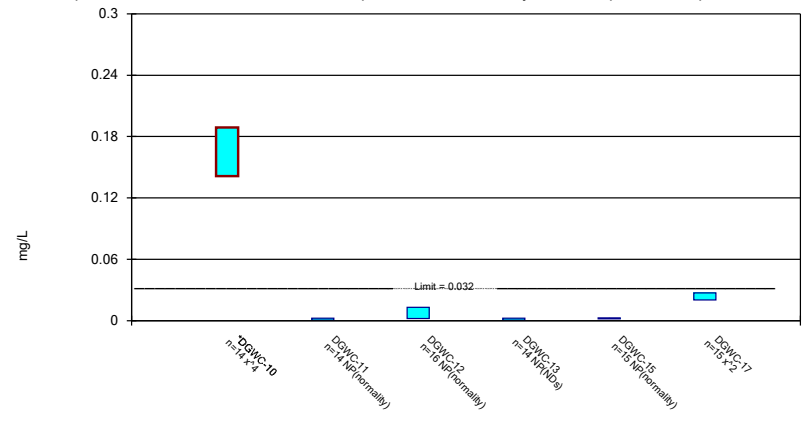
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Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

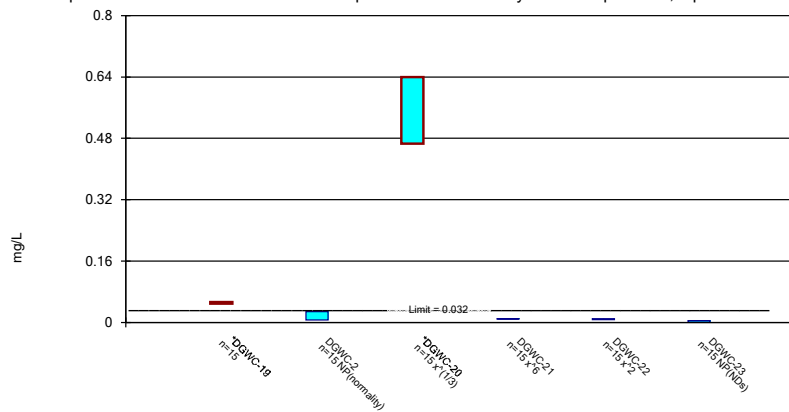
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

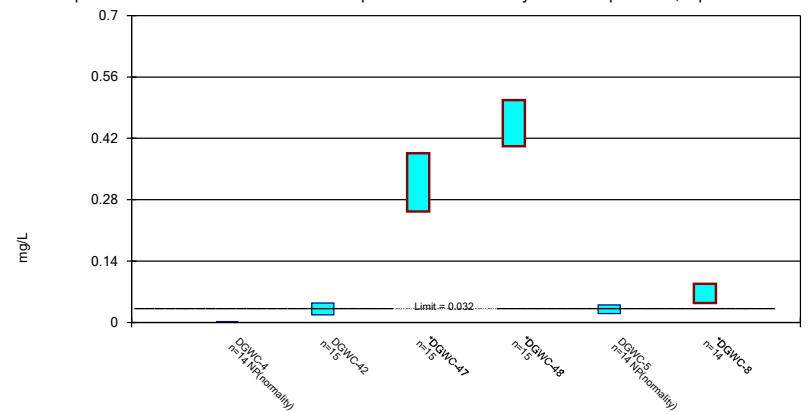
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Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

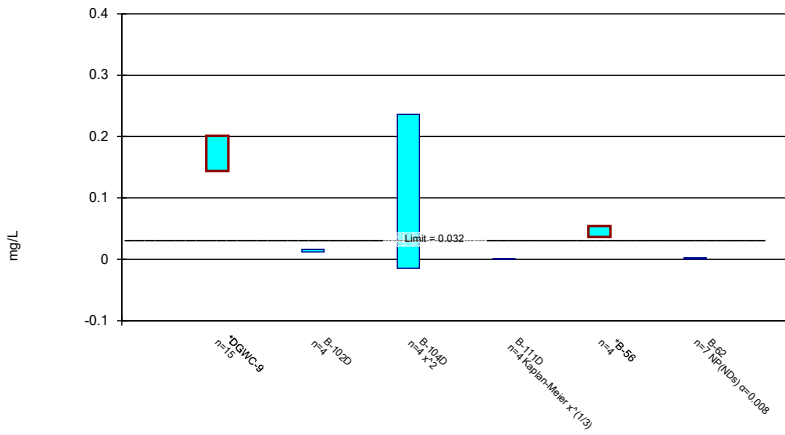
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

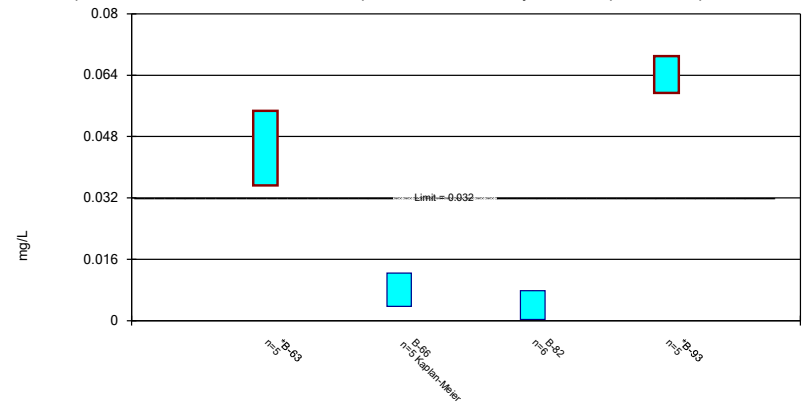
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Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

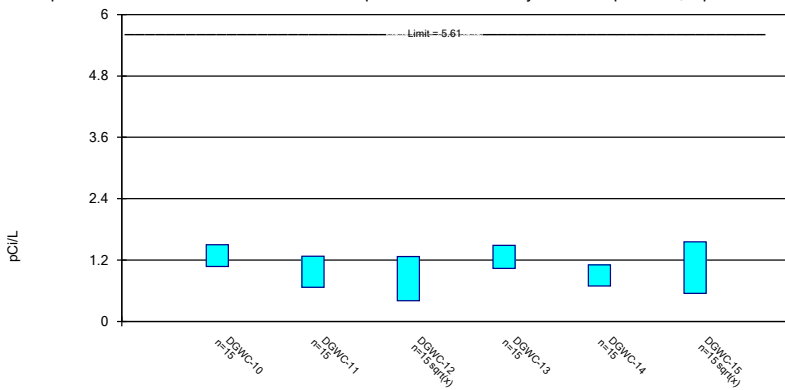
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

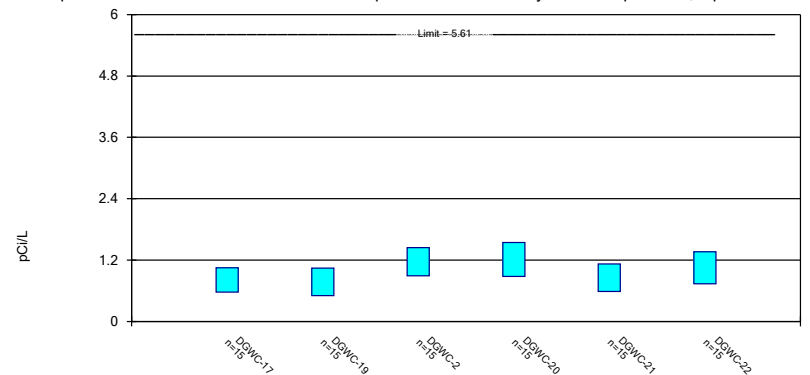
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

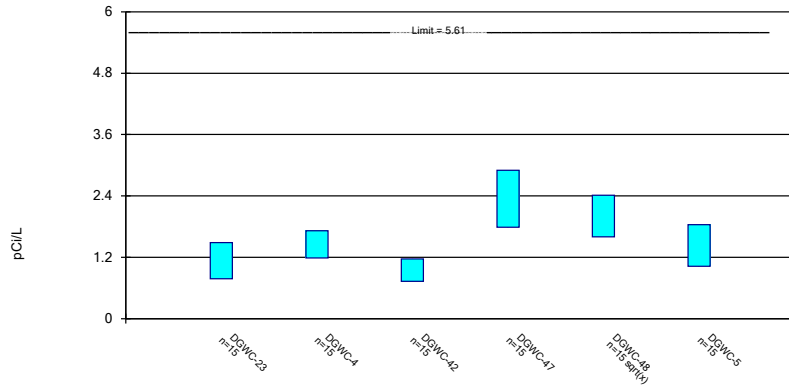
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

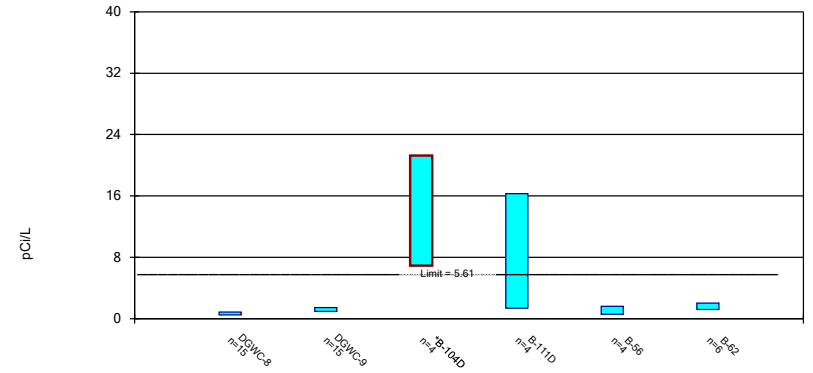
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Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

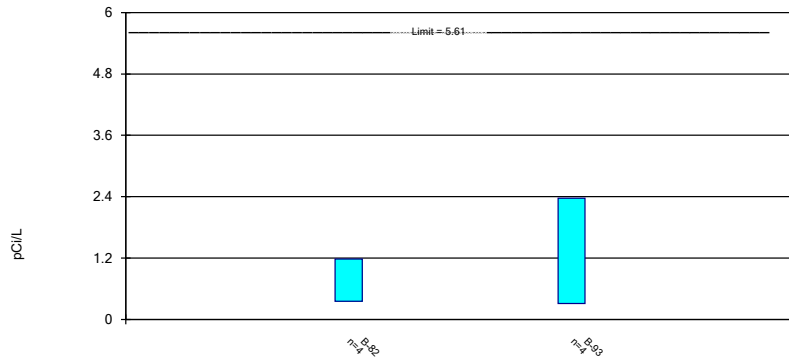
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Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

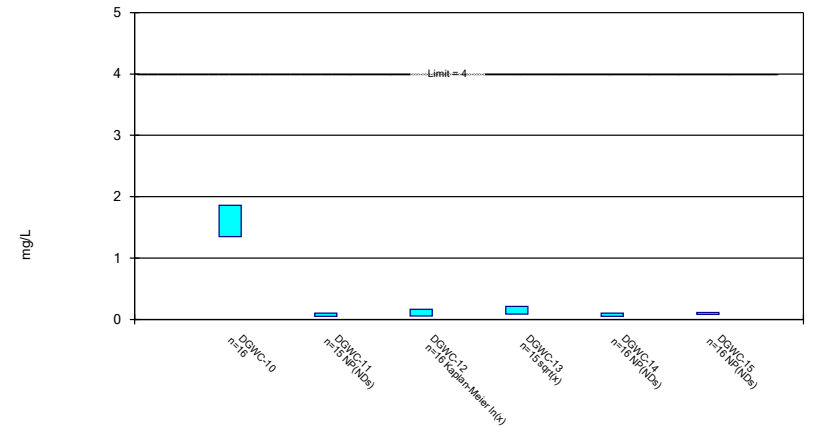
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Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

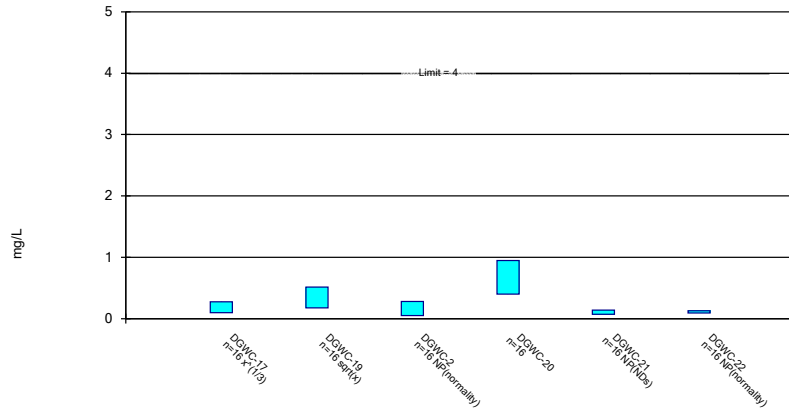
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

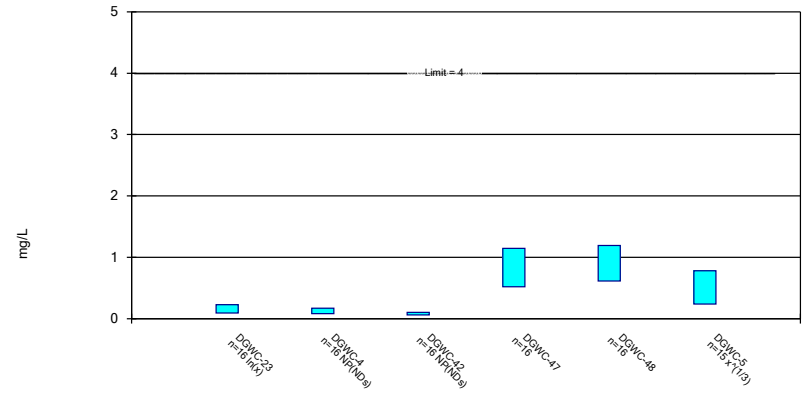
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

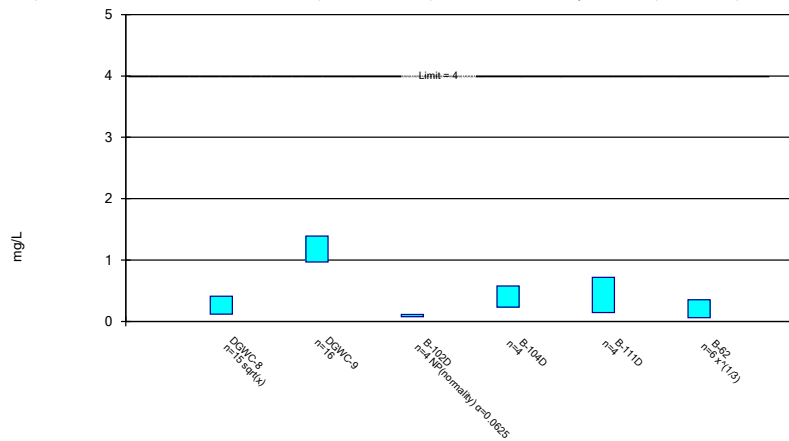
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

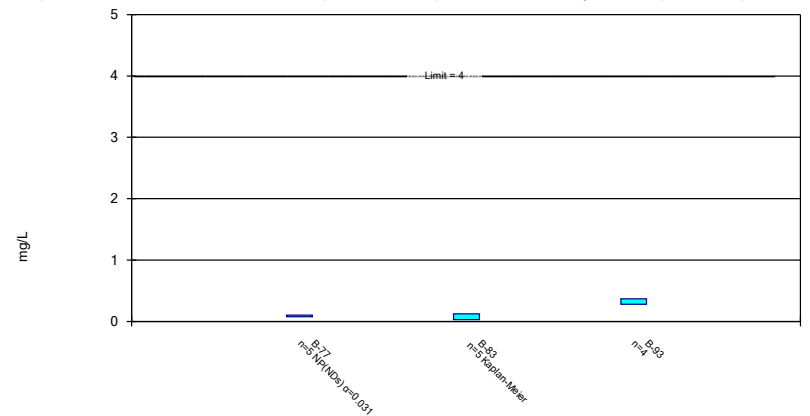
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Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

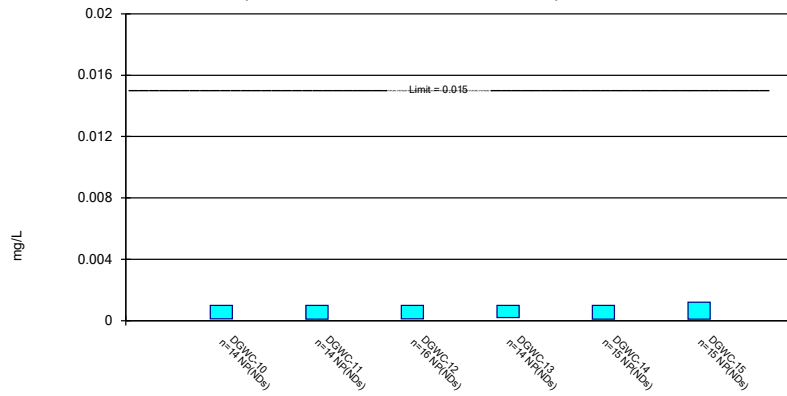
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

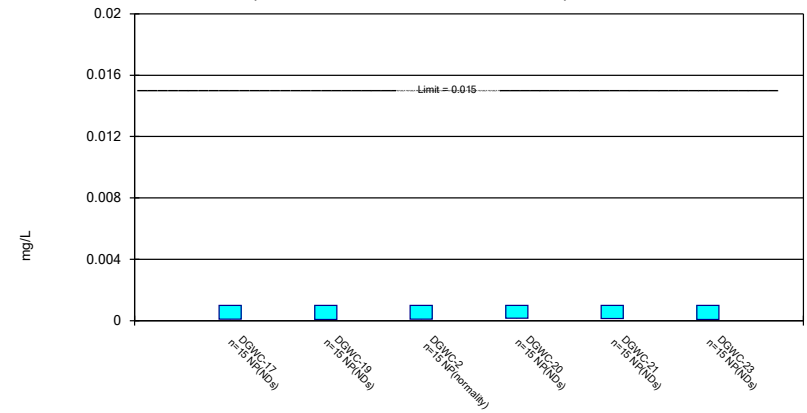
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

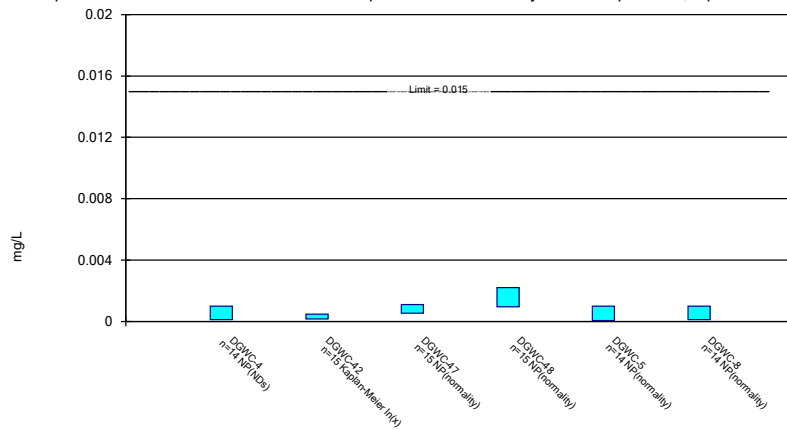
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

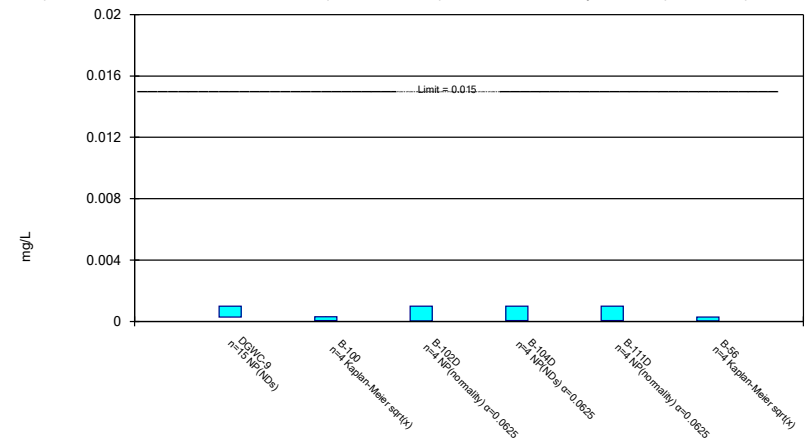
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

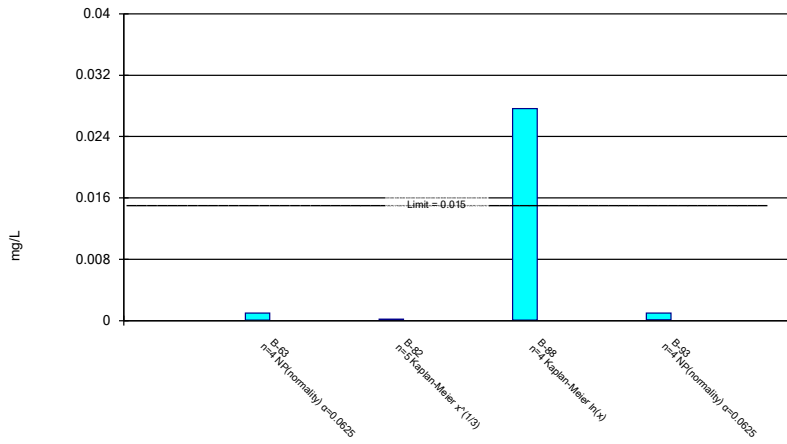
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

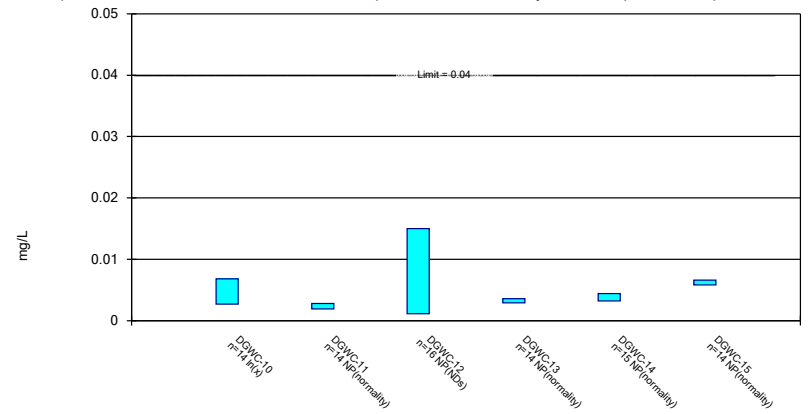
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

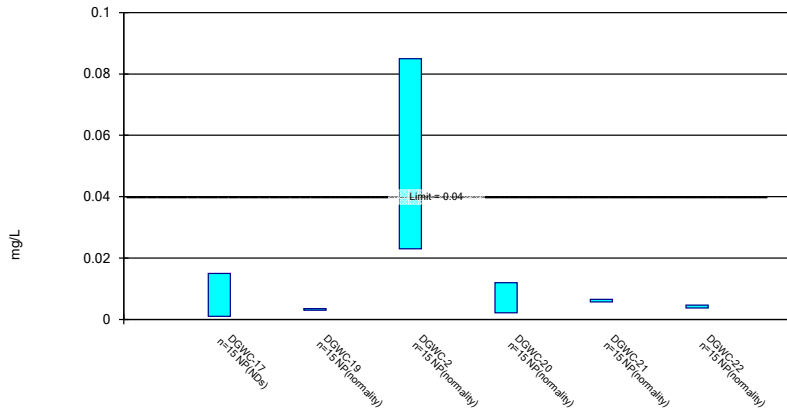
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

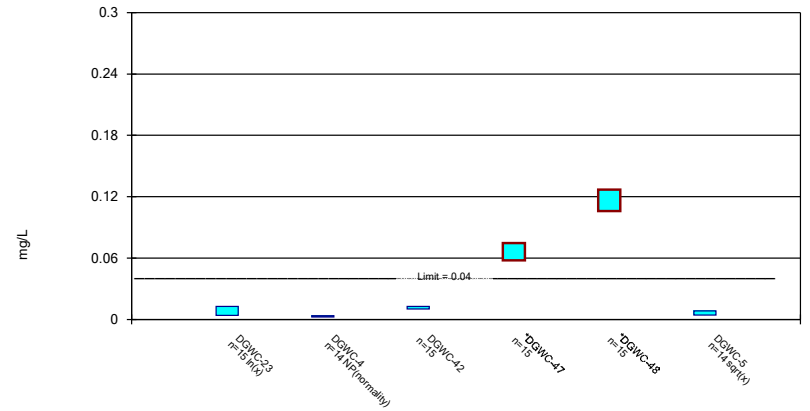
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

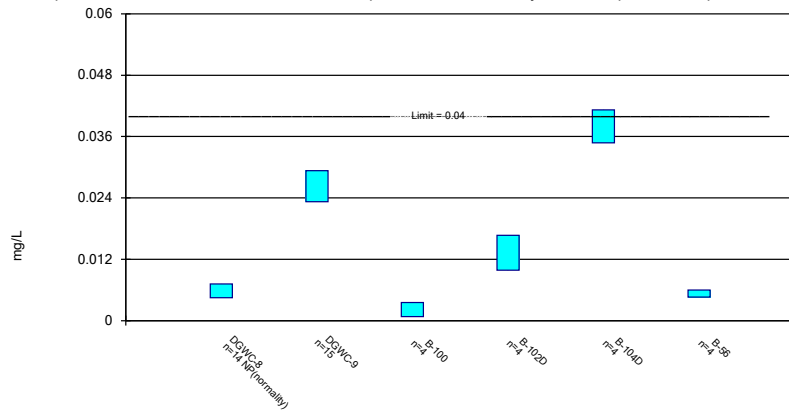
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

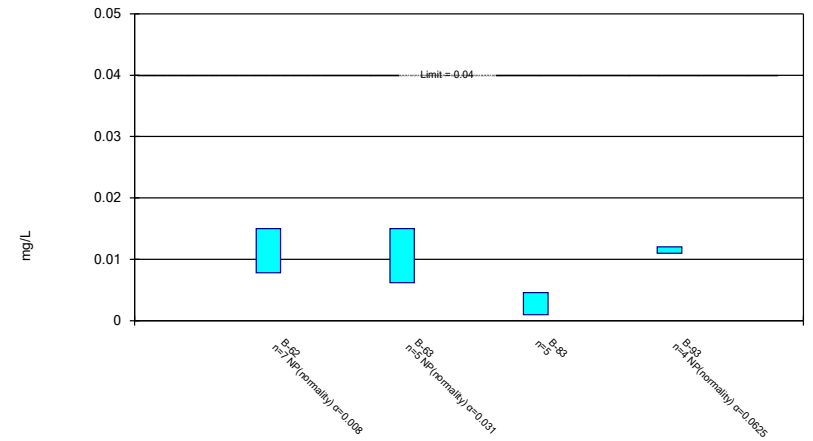
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

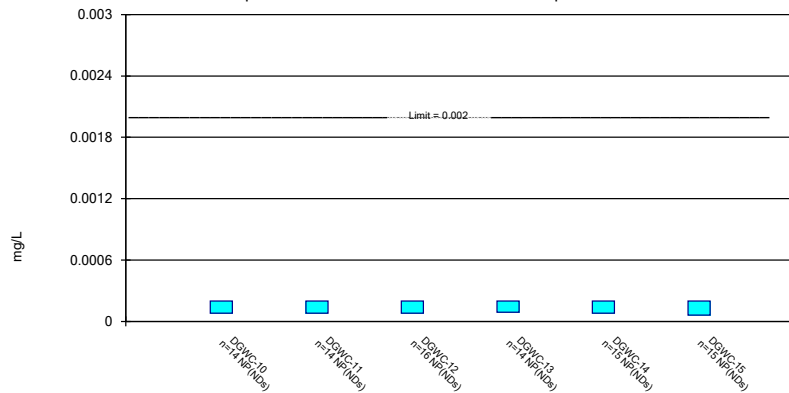
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

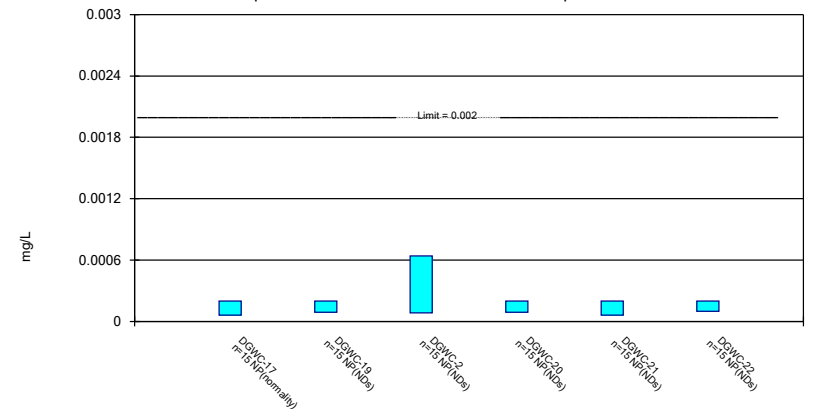
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

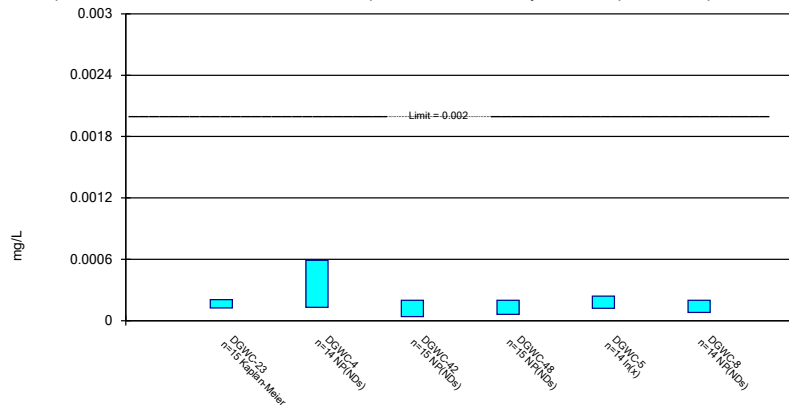
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

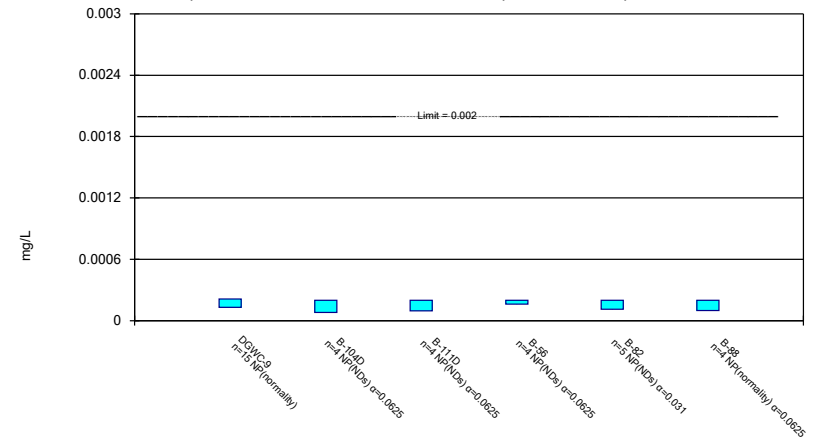
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

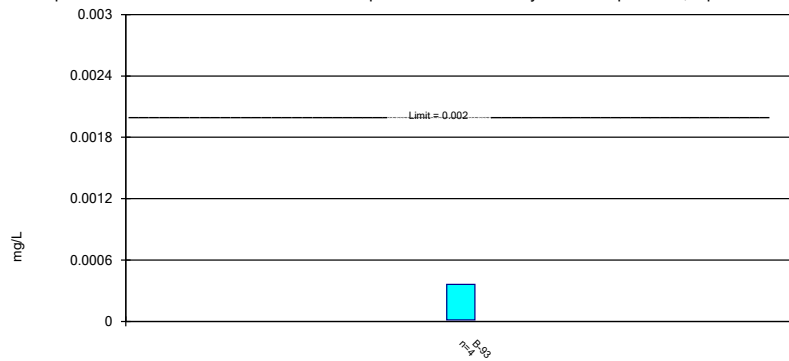
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

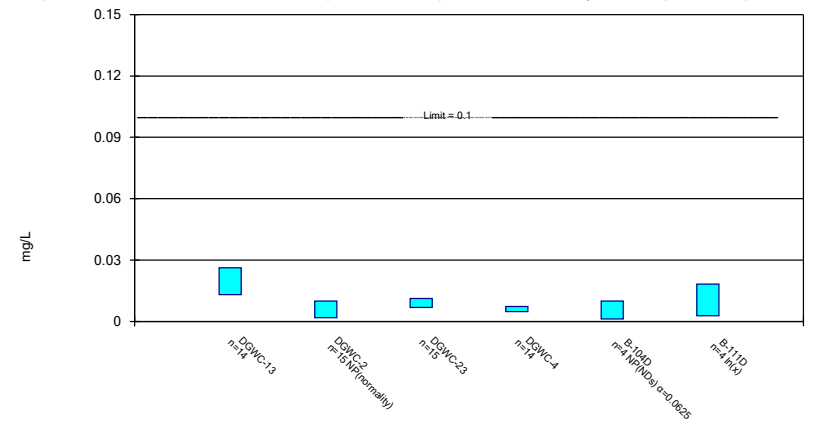
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

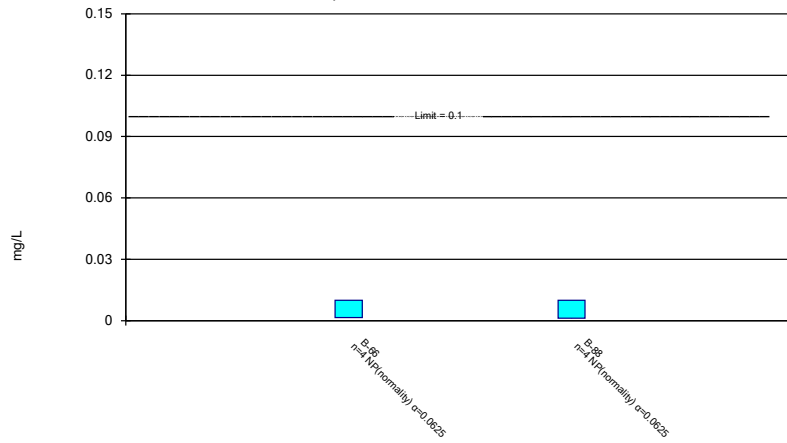
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

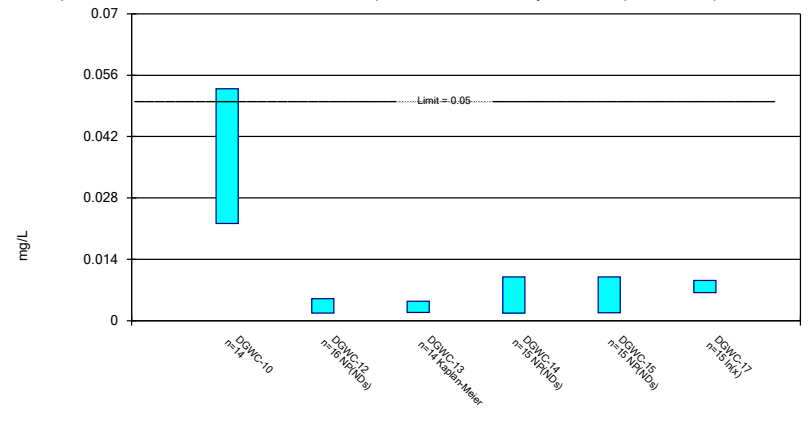
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

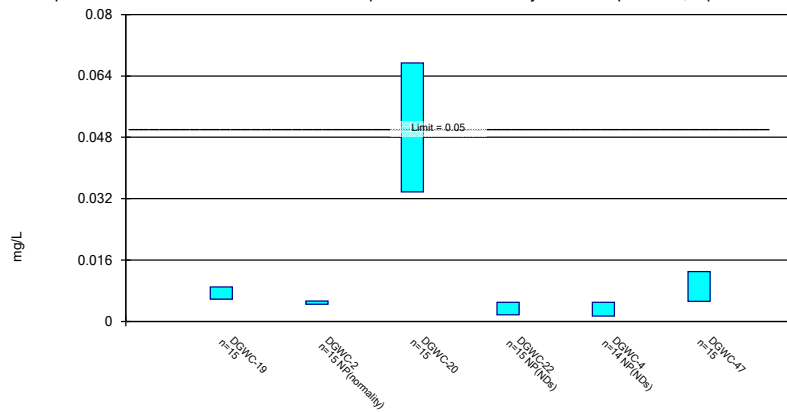
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

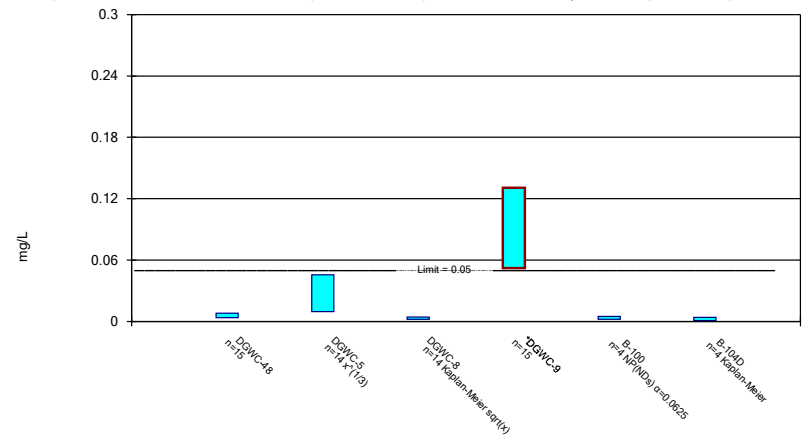
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

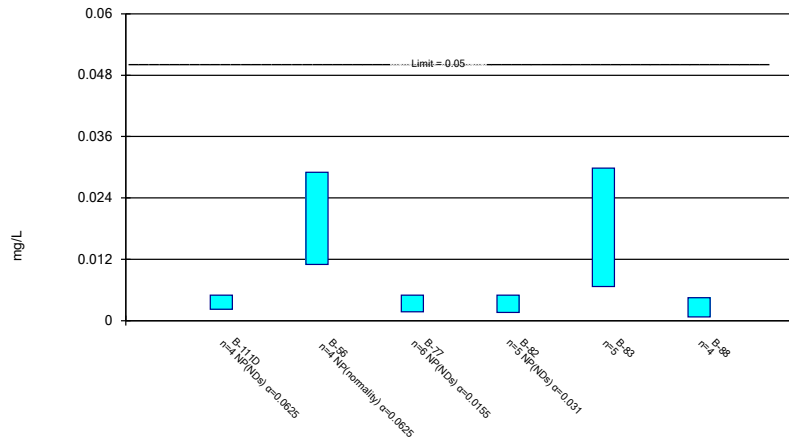
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

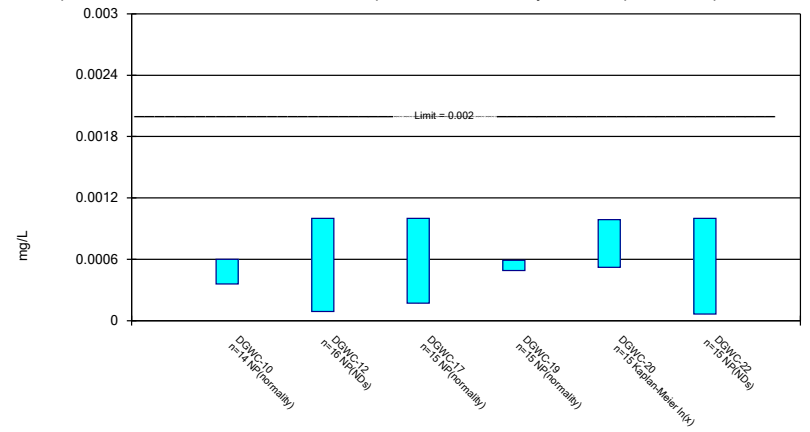
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

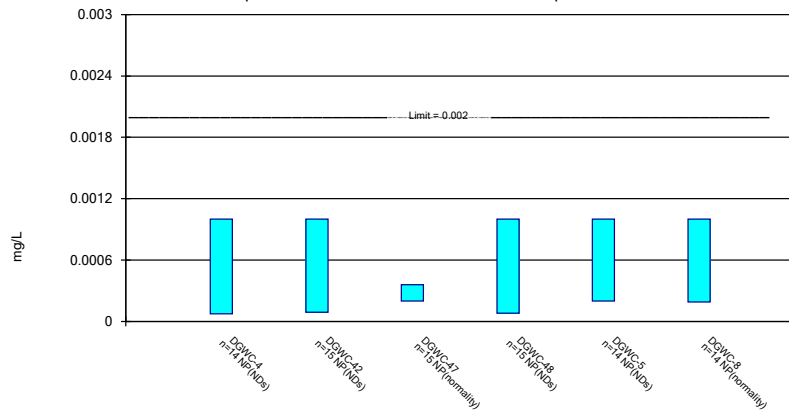
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

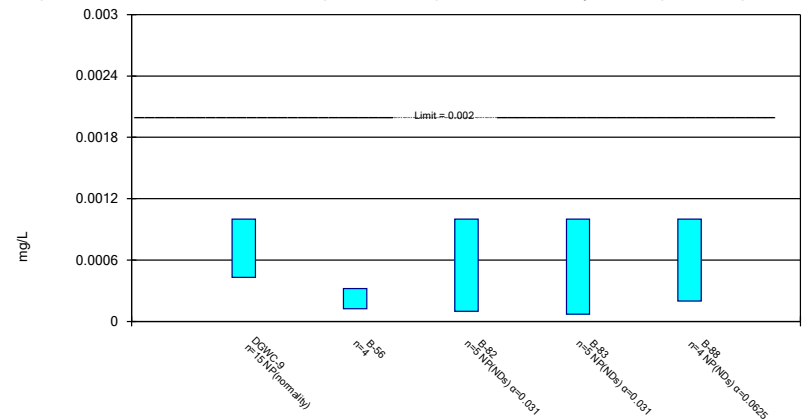
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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: Thallium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		<0.003				
9/1/2016	<0.003				<0.003	
9/6/2016			<0.003			
9/7/2016				<0.003		
12/6/2016		<0.003				
12/7/2016	<0.003		<0.003		<0.003	
12/8/2016				<0.003		
3/29/2017	<0.003	<0.003			<0.003	
3/30/2017			<0.003	<0.003		<0.003
5/11/2017						<0.003
6/15/2017						0.0006 (J)
7/11/2017						<0.003
7/12/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/24/2017						<0.003
10/25/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
2/27/2018	<0.003	<0.003				<0.003
2/28/2018			<0.003	<0.003	<0.003	
7/11/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/6/2018						<0.003
11/7/2018	<0.003	<0.003	<0.003	<0.003	<0.003	
8/27/2019	<0.003	<0.003		<0.003		<0.003
8/28/2019			0.00033 (J)		<0.003	
9/17/2019	<0.003					
10/15/2019	<0.003					
10/16/2019		<0.003			<0.003	
10/17/2019			<0.003			<0.003
10/18/2019				<0.003		
3/2/2020	0.0003 (J)					
3/3/2020		<0.003	<0.003		<0.003	<0.003
3/4/2020				<0.003		
8/11/2020	<0.003	<0.003			<0.003	<0.003
8/13/2020			0.00073 (J)			
8/14/2020				<0.003		
9/22/2020	<0.003	0.0011 (J)			0.00036 (J)	
9/23/2020			<0.003			<0.003
9/24/2020				0.00045 (J)		
3/2/2021		<0.003	<0.003		<0.003	<0.003
3/3/2021	<0.003			<0.003		
9/9/2021	<0.003	<0.003	<0.003		<0.003	<0.003
9/13/2021				<0.003		
Mean	0.002831	0.002873	0.002671	0.00283	0.002824	0.00284
Std. Dev.	0.000675	0.0004906	0.0008724	0.0006584	0.0006816	0.0006197
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0011	0.00073	0.00045	0.00036	0.0006

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.003
9/1/2016				<0.003	<0.003	
9/2/2016	<0.003					
12/6/2016						<0.003
12/8/2016	<0.003			<0.003	<0.003	
3/28/2017			<0.003			<0.003
3/30/2017	<0.003	<0.003			<0.003	
3/31/2017				<0.003		
5/12/2017		<0.003	<0.003			
6/15/2017		0.0007 (J)	0.0008 (J)			
7/11/2017			<0.003			<0.003
7/12/2017	<0.003	<0.003				
7/13/2017				<0.003	<0.003	
10/24/2017			<0.003			
10/25/2017	<0.003					<0.003
10/26/2017		<0.003		<0.003	<0.003	
2/27/2018			<0.003			<0.003
2/28/2018	<0.003					
3/1/2018		<0.003		<0.003		
3/2/2018					<0.003	
7/11/2018	0.0013 (J)					
7/12/2018		<0.003		<0.003	<0.003	
11/6/2018			<0.003			<0.003
11/7/2018	<0.003			<0.003	<0.003	
11/8/2018		<0.003				
8/27/2019			<0.003			<0.003
8/29/2019	<0.003	<0.003		<0.003	<0.003	
10/15/2019			<0.003			
10/16/2019						<0.003
10/17/2019	<0.003			<0.003		
10/18/2019		<0.003			<0.003	
3/2/2020			0.00058 (J)			0.00032 (J)
3/3/2020	<0.003					
3/4/2020		<0.003		<0.003	<0.003	
8/12/2020			<0.003	<0.003		<0.003
8/13/2020		<0.003			<0.003	
8/14/2020	<0.003					
9/22/2020			<0.003			<0.003
9/23/2020				0.0012 (J)	0.00039 (J)	
9/24/2020	<0.003	<0.003				
3/1/2021			0.00049 (J)			
3/2/2021						0.0015 (J)
3/3/2021	<0.003	<0.003		<0.003	<0.003	
9/9/2021	<0.003	<0.003				
9/10/2021			<0.003	<0.003	0.0018 (J)	<0.003
Mean	0.002887	0.002847	0.002491	0.00288	0.002746	0.002701
Std. Dev.	0.0004389	0.0005939	0.001014	0.0004648	0.0007213	0.0007935
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0007	0.0008	0.0012	0.0018	0.0015

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	B-100	B-102D	B-104D	B-111D	B-62
8/30/2016	<0.003					
12/6/2016	<0.003					
3/29/2017	<0.003					
7/11/2017	<0.003					
10/24/2017	<0.003					
2/27/2018	<0.003					
11/6/2018	<0.003					
1/30/2019						<0.003
8/28/2019	<0.003					
9/11/2019						<0.003
10/16/2019	<0.003					
10/21/2019						<0.003
3/3/2020	<0.003					
8/12/2020	<0.003					
8/13/2020						<0.003
8/17/2020		0.0013 (J)				
9/23/2020	<0.003					
9/24/2020						0.00046 (J)
9/25/2020		<0.003				
12/9/2020				0.00079 (J)	<0.003	
12/17/2020			0.0016 (J)			
1/11/2021			<0.003			
1/12/2021				0.00048 (J)	<0.003	
3/2/2021	0.00046 (J)					
3/4/2021			<0.003	0.00077 (J)		
3/5/2021					0.0006 (J)	
3/8/2021		0.0017 (J)				
3/12/2021						<0.003
9/9/2021						<0.003
9/10/2021			<0.003			
9/13/2021	<0.003	<0.003				
9/14/2021				<0.003	<0.003	
Mean	0.002819	0.00225	0.00265	0.00126	0.0024	0.002637
Std. Dev.	0.0006788	0.0008813	0.0007	0.001169	0.0012	0.00096
Upper Lim.	0.003	0.001954	0.003	0.001068	0.003	0.003
Lower Lim.	0.00046	0.001046	0.0016	0.0003847	0.0006	0.00046

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-93
1/28/2019	<0.003		
9/11/2019	<0.003		
9/18/2019		<0.003	
10/22/2019	0.00066 (J)		
10/24/2019		<0.003	
8/13/2020		0.00043 (J)	
8/19/2020			<0.003
9/24/2020		0.00036 (J)	
9/28/2020			0.0014 (J)
3/4/2021		0.00063 (J)	
3/9/2021			<0.003
9/14/2021	<0.003	<0.003	
9/15/2021			<0.003
Mean	0.002415	0.001737	0.0026
Std. Dev.	0.00117	0.001387	0.0008
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00066	0.00036	0.0014

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	0.0058		<0.005			
9/1/2016		<0.005				0.0022 (J)
9/6/2016				<0.005		
9/7/2016					<0.005	
12/6/2016	0.0017 (J)		<0.005			
12/7/2016		<0.005		<0.005		<0.005
12/8/2016					<0.005	
3/29/2017	0.0055	<0.005	<0.005			0.002 (J)
3/30/2017				0.0006 (J)	0.0008 (J)	
7/12/2017	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	0.0058					
10/25/2017		0.0006 (J)	<0.005	<0.005	0.0007 (J)	0.0022 (J)
2/27/2018	0.0105	<0.005	<0.005			
2/28/2018				<0.005	0.00073 (J)	0.0028 (J)
7/11/2018		<0.005	<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005 (J)					
11/7/2018		<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019				<0.005		0.00049 (J)
9/17/2019		<0.005				
10/15/2019	0.0078	0.00063 (J)				
10/16/2019			0.00039 (J)			0.00046 (J)
10/17/2019				0.00064 (J)		
10/18/2019					0.0012 (J)	
3/2/2020		<0.005				
3/3/2020	0.0025 (J)		<0.005	<0.005		<0.005
3/4/2020					0.0014 (J)	
8/11/2020	0.0028 (J)	<0.005	<0.005			0.0014 (J)
8/13/2020				0.0013 (J)		
8/14/2020					<0.005	
9/22/2020		<0.005	<0.005			0.0017 (J)
9/23/2020				<0.005		
9/24/2020	0.0078				0.0011 (J)	
3/2/2021			<0.005	<0.005		0.0013 (J)
3/3/2021		<0.005			<0.005	
3/4/2021	0.006					
9/9/2021		<0.005	<0.005	<0.005		0.0027 (J)
9/10/2021	0.0076					
9/13/2021					<0.005	
Mean	0.005386	0.004452	0.004693	0.004169	0.003395	0.002317
Std. Dev.	0.002519	0.001498	0.00119	0.001726	0.002042	0.001551
Upper Lim.	0.00717	0.005	0.005	0.005	0.005	0.002035
Lower Lim.	0.003601	0.00063	0.00039	0.0013	0.0008	0.0009847

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
Mean	0.004566	0.01208	0.004733	0.004057	0.004453	0.002627
Std. Dev.	0.00118	0.006761	0.001033	0.001875	0.001445	0.001504
Upper Lim.	0.005	0.01666	0.005	0.005	0.005	0.002647
Lower Lim.	0.0025	0.007499	0.001	0.0008	0.0011	0.001328

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-104D	B-111D
8/30/2016			<0.005	0.0241		
8/31/2016		0.0035 (J)				
9/1/2016	<0.005					
12/6/2016		0.0032 (J)	<0.005	<0.005		
12/8/2016	<0.005					
3/28/2017		0.0385		0.0243		
3/29/2017			0.001 (J)			
3/30/2017	0.0015 (J)					
7/11/2017		0.0203	0.0012 (J)	0.0194		
7/13/2017	0.0012 (J)					
10/24/2017			0.0015 (J)	0.0249		
10/25/2017		0.0119				
10/26/2017	0.0008 (J)					
2/27/2018		0.0094	0.002 (J)	0.0405		
3/2/2018	0.0017 (J)					
7/11/2018				0.016		
7/12/2018	0.0015 (J)					
11/6/2018		<0.005	<0.005	0.017		
11/7/2018	<0.005					
8/27/2019		<0.005		0.021		
8/28/2019			<0.005			
8/29/2019	<0.005					
10/16/2019		0.0036 (J)	<0.005			
10/17/2019				0.033		
10/18/2019	0.00079 (J)					
3/2/2020		0.0052				
3/3/2020			0.00096 (J)	0.015		
3/4/2020	0.0006 (J)					
8/11/2020				0.022		
8/12/2020		0.002 (J)	<0.005			
8/13/2020	<0.005					
9/22/2020		0.0062		0.04		
9/23/2020	<0.005		<0.005			
12/9/2020				<0.005	<0.005	
1/12/2021				<0.005	<0.005	
3/2/2021		0.0013 (J)	<0.005	0.021		
3/3/2021	<0.005					
3/4/2021				0.0025 (J)		
3/5/2021					0.0023 (J)	
9/10/2021	<0.005	0.0031 (J)		0.031		
9/13/2021			<0.005			
9/14/2021					0.0019 (J)	0.0029 (J)
Mean	0.003206	0.008443	0.00369	0.02361	0.0036	0.0038
Std. Dev.	0.002005	0.009971	0.001839	0.009468	0.001635	0.001407
Upper Lim.	0.005	0.0118	0.005	0.03003	0.002881	0.003281
Lower Lim.	0.0008	0.002817	0.0012	0.0172	0.001519	0.001919

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-77	B-93
9/18/2019		<0.005	
10/24/2019		0.0029 (J)	
8/13/2020		0.002 (J)	
8/17/2020	0.0032 (J)		
8/19/2020			0.0013 (J)
9/24/2020		0.0025 (J)	
9/28/2020	0.0047 (J)		0.0027 (J)
3/3/2021	0.003 (J)		
3/4/2021		0.002 (J)	
3/9/2021			<0.005
9/13/2021	0.0031 (J)		
9/14/2021		<0.005	
9/15/2021			<0.005
Mean	0.0035	0.003233	0.0035
Std. Dev.	0.0008042	0.001409	0.001824
Upper Lim.	0.0047	0.002882	0.003589
Lower Lim.	0.003	0.001869	0.0004108

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0321	0.0545			0.0576	
9/1/2016			0.0254			
9/6/2016				0.0297		0.0497
12/6/2016	0.029	0.0564			0.0608	
12/7/2016			0.0241	0.0266		0.0469
3/29/2017	0.0335	0.0565	0.0268		0.0693	
3/30/2017				0.0308		0.0495
7/12/2017	0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
10/24/2017	0.0317	0.0596				
10/25/2017			0.0268		0.0563	0.0474
11/15/2017				0.0309		
2/27/2018	0.028	0.0672	0.0255		0.0591	
2/28/2018				<0.01		0.0455
7/11/2018			0.026		0.061	0.05
11/6/2018	0.025	0.074				
11/7/2018			0.028	0.034	0.055	0.042
8/27/2019	0.021	0.071	0.024		0.059	
8/28/2019				0.033		0.047
9/17/2019			0.02			
10/15/2019	0.024	0.064	0.02			
10/16/2019				0.034	0.059	
10/17/2019						0.046
3/2/2020		0.071	0.04			
3/3/2020	0.024			0.035	0.064	0.05
8/11/2020	0.024	0.064	0.028		0.061	
8/12/2020				0.032		
8/13/2020						0.06
9/22/2020		0.058	0.036		0.06	
9/23/2020				0.03		0.043
9/24/2020	0.021					
3/2/2021		0.052		0.03	0.064	0.043
3/3/2021			0.035			
3/4/2021	0.025					
9/9/2021		0.054	0.04	0.027	0.059	0.041
9/10/2021	0.019					
Mean	0.02634	0.06139	0.02824	0.02908	0.06024	0.04751
Std. Dev.	0.004637	0.007138	0.006231	0.007369	0.003493	0.004744
Upper Lim.	0.02962	0.06644	0.03199	0.03292	0.06261	0.05073
Lower Lim.	0.02305	0.05633	0.02415	0.02732	0.05787	0.0443

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
9/2/2016				0.0097 (J)	0.0252	0.0397
9/7/2016	0.0694					
12/7/2016		0.0191		0.0087 (J)		
12/8/2016	0.062				0.0262	0.0408
3/29/2017		0.0209		0.0094 (J)		0.0417
3/30/2017	0.0615		0.0232		0.0272	
5/11/2017			0.0231			
6/15/2017			0.0223			
7/11/2017			0.0201			
7/12/2017	0.0532	0.0212		0.0099 (J)	0.0276	
7/13/2017						0.0376
10/24/2017			0.0206			
10/25/2017	0.0544	0.021		0.0096 (J)	0.0262	0.0384
2/27/2018			0.0207			
2/28/2018	0.0527	0.0213		<0.01	0.027	0.0353
7/11/2018	0.053	0.023	0.022	0.01	0.027	
7/12/2018						0.036
11/6/2018			0.021			
11/7/2018	0.044	0.024		0.011	0.024	0.031
8/27/2019	0.05		0.023			
8/28/2019		0.026				
8/29/2019				0.018	0.027	0.031
10/16/2019		0.024				
10/17/2019			0.022	0.015	0.027	
10/18/2019	0.045					0.032
3/3/2020		0.028	0.022		0.027	0.035
3/4/2020	0.044			0.017		
8/11/2020		0.027	0.022			
8/13/2020				0.019		
8/14/2020	0.046				0.027	0.035
9/22/2020		0.026		0.011		
9/23/2020			0.023			
9/24/2020	0.033				0.024	0.031
3/2/2021		0.026	0.023	0.021		
3/3/2021	0.036				0.024	0.031
9/9/2021		0.025	0.022		0.023	
9/10/2021				0.0098		0.027
9/13/2021	0.031					
Mean	0.04901	0.02359	0.022	0.01227	0.02596	0.03483
Std. Dev.	0.01083	0.002686	0.001	0.004566	0.001505	0.004281
Upper Lim.	0.05635	0.02541	0.02268	0.01537	0.0272	0.03773
Lower Lim.	0.04167	0.02177	0.02132	0.009179	0.024	0.03193

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (O)
9/1/2016				0.0162	0.0157	
9/7/2016			0.0194			
12/6/2016						0.0186
12/8/2016			0.0189	0.0247	0.0155	
3/28/2017		0.0363				0.0187
3/30/2017	0.0184				0.0131	
3/31/2017			0.0194	0.0189		
5/12/2017	0.0202	0.0337				
6/15/2017	0.0188	0.03				
7/11/2017		0.0301				0.0174 (J)
7/12/2017	0.0186					
7/13/2017			0.021	0.0165	0.014	
10/24/2017		0.0351				
10/25/2017			0.0196			0.0175
10/26/2017	0.0176			0.0152	0.0117	
2/27/2018		0.0364				0.0172
2/28/2018			0.0171			
3/1/2018	0.0164			0.0164		
3/2/2018					0.0131	
7/11/2018			0.02			
7/12/2018	0.022			0.015	0.013	
11/6/2018		0.035				0.016
11/7/2018			0.017	0.02	0.014	
11/8/2018	0.022					
8/27/2019		0.036				0.017
8/28/2019			0.018			
8/29/2019	0.025			0.018	0.014	
10/15/2019		0.033				
10/16/2019						0.02
10/17/2019			0.018	0.019		
10/18/2019	0.019				0.014	
3/2/2020		0.036				0.018
3/4/2020	0.032		0.015	0.017	0.014	
8/12/2020		0.036		0.016		0.017
8/13/2020	0.027		0.027		0.013	
9/22/2020		0.03	0.016			0.017
9/23/2020				0.014	0.013	
9/24/2020	0.02					
3/1/2021		0.039				
3/2/2021						0.017
3/3/2021	0.019		0.015	0.02	0.014	
9/9/2021	0.021					
9/10/2021		0.032		0.021	0.013	0.015
9/13/2021			0.014			
Mean	0.02113	0.03419	0.01836	0.01786	0.01367	0.01742
Std. Dev.	0.004092	0.002802	0.003153	0.002794	0.001016	0.001247
Upper Lim.	0.0236	0.03617	0.0205	0.01975	0.01436	0.01834
Lower Lim.	0.01844	0.0322	0.01622	0.01597	0.01298	0.01649

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-56
8/30/2016	0.0435	0.0162				
12/6/2016	0.0431	0.0138				
3/28/2017		0.017				
3/29/2017	0.044					
7/11/2017	0.0389	0.0154 (J)				
10/24/2017	0.0369	0.0148				
2/27/2018	0.0346	0.0148				
7/11/2018		0.017				
11/6/2018	0.027	0.015				
8/27/2019		0.016				
8/28/2019	0.025					
10/16/2019	0.027					
10/17/2019		0.015				
3/3/2020	0.026	0.016				
8/11/2020		0.016				
8/12/2020	0.034					
8/17/2020						0.03
9/22/2020		0.015				
9/23/2020	0.025					
9/28/2020						0.026
12/9/2020				0.026	0.027	
12/17/2020			0.022			
1/11/2021			0.024			
1/12/2021				0.022	0.027	
3/2/2021	0.029	0.017				
3/3/2021						0.028
3/4/2021			0.022	0.021		
3/5/2021					0.038	
9/10/2021		0.014	0.02			
9/13/2021	0.019					0.026
9/14/2021				0.021	0.043	
Mean	0.03236	0.01553	0.022	0.0225	0.03375	0.0275
Std. Dev.	0.008048	0.00103	0.001633	0.00238	0.008057	0.001915
Upper Lim.	0.03806	0.01623	0.02571	0.026	0.05204	0.03185
Lower Lim.	0.02666	0.01484	0.01829	0.021	0.01546	0.02315

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83
1/28/2019		0.028				
1/30/2019	0.018		0.016			
9/11/2019	0.023	0.021				
9/12/2019			0.017			
9/18/2019				0.086		
9/23/2019					0.031	
10/21/2019	0.026		0.018		0.03	0.034
10/22/2019		0.021				
10/24/2019				0.1		
8/13/2020	0.026			0.11		
8/14/2020						0.056
8/17/2020					0.024	
9/24/2020	0.025			0.12		
9/25/2020						0.027
9/28/2020					0.023	
3/4/2021				0.11		0.032
3/12/2021	0.027					
9/9/2021	0.021					
9/14/2021		0.026	0.018	0.12	0.022	
9/16/2021						0.03
Mean	0.02371	0.024	0.01725	0.1077	0.026	0.0358
Std. Dev.	0.003251	0.003559	0.0009574	0.01299	0.004183	0.01158
Upper Lim.	0.02758	0.03208	0.01942	0.1255	0.03301	0.05537
Lower Lim.	0.01985	0.01592	0.01508	0.08983	0.01899	0.02029

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
8/17/2020	0.022	
8/19/2020		0.018
9/25/2020	0.021	
9/28/2020		0.017
3/5/2021	0.022	
3/9/2021		0.016 (J)
9/13/2021	0.016	
9/15/2021		0.016
Mean	0.02025	0.01675
Std. Dev.	0.002872	0.0009574
Upper Lim.	0.02418	0.01892
Lower Lim.	-0.01405	0.01458

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0046	<0.0005				
9/1/2016			0.0002 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0006 (J)
12/6/2016	0.0048	<0.0005				
12/7/2016			0.0002 (J)	<0.0005	<0.0005	
12/8/2016						0.0005 (J)
3/29/2017	0.0048	<0.0005	0.0002 (J)			
3/30/2017				7E-05 (J)	<0.0005	0.0006 (J)
7/12/2017	0.0046	<0.0005	0.0002 (J)	<0.0005	<0.0005	0.0005 (J)
10/24/2017	0.0048	<0.0005				
10/25/2017			0.0002 (J)		<0.0005	0.0005 (J)
11/15/2017				<0.0005		
2/27/2018	0.0106	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.0002 (J)		<0.0005	0.00058 (J)
11/6/2018	0.012	<0.003 (J)				
11/7/2018			<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.0005
8/27/2019	0.0092	0.00014 (J)	0.00028 (J)			0.00066 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00049 (J)			
10/15/2019	0.01	0.00012 (J)	0.00016 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00071 (J)
3/2/2020		0.00016 (J)	7.4E-05 (J)			
3/3/2020	0.0085			<0.0005	<0.0005	
3/4/2020						0.00062 (J)
8/11/2020	0.0066	0.00011 (J)	0.00024 (J)			
8/12/2020				7.8E-05 (J)		
8/13/2020					0.00022 (J)	
8/14/2020						0.00064 (J)
9/22/2020		0.00015 (J)	0.00017 (J)			
9/23/2020				6.8E-05 (J)	5.8E-05 (J)	
9/24/2020	0.0077					0.0006 (J)
3/2/2021		0.00014 (J)		7.3E-05 (J)	<0.0005	
3/3/2021			0.00011 (J)			0.00056
3/4/2021	0.0086					
9/9/2021		0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	
9/10/2021	0.0074					
9/13/2021						0.00052
Mean	0.007443	0.0004964	0.0003943	0.0005256	0.0006185	0.0005727
Std. Dev.	0.002492	0.0007432	0.0007051	0.000742	0.0006715	6.808E-05
Upper Lim.	0.009208	0.003	0.00049	0.003	0.003	0.0006188
Lower Lim.	0.005678	0.00013	0.00011	7E-05	0.00022	0.0005265

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/1/2016	0.0019 (J)					
9/2/2016		0.0026 (J)	0.0001 (J)	0.0002 (J)		
12/7/2016	0.0021 (J)	0.0035				
12/8/2016			0.0001 (J)	0.0001 (J)		
3/28/2017						0.0002 (J)
3/29/2017	0.0017 (J)	0.0026 (J)		0.0002 (J)		
3/30/2017			0.0002 (J)		0.0004 (J)	
5/12/2017					0.0004 (J)	0.0002 (J)
6/15/2017					0.0004 (J)	0.0001 (J)
7/11/2017						0.0001 (J)
7/12/2017	0.0018 (J)	0.0025 (J)	0.0001 (J)		0.0004 (J)	
7/13/2017				0.0002 (J)		
10/24/2017						0.0002 (J)
10/25/2017	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)		
10/26/2017					0.0004 (J)	
2/27/2018						<0.0005
2/28/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/1/2018					<0.0005	
7/11/2018	0.002 (J)	0.0026 (J)	0.00016 (J)			
7/12/2018				0.00018 (J)	0.00035 (J)	
11/6/2018						<0.003 (J)
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.003 (J)		
11/8/2018					<0.003 (J)	
8/27/2019						0.00024 (J)
8/28/2019	0.0018 (J)					
8/29/2019		0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)	
10/15/2019						0.00022 (J)
10/16/2019	0.0017 (J)					
10/17/2019		0.0041	0.00015 (J)			
10/18/2019				0.00014 (J)	0.00038 (J)	
3/2/2020						0.00025 (J)
3/3/2020	0.0021 (J)		0.00019 (J)	0.00017 (J)		
3/4/2020		0.0089			0.00077 (J)	
8/11/2020	0.002 (J)					
8/12/2020						0.00024 (J)
8/13/2020		0.0063			0.00041 (J)	
8/14/2020			0.0002 (J)	0.00016 (J)		
9/22/2020	0.002 (J)	0.0027 (J)				0.00019 (J)
9/24/2020			0.00018 (J)	0.00017 (J)	0.00045 (J)	
3/1/2021						0.00027 (J)
3/2/2021	0.0019	0.0057				
3/3/2021			0.00017 (J)	0.00013 (J)	0.0005	
9/9/2021	0.0022		0.00018 (J)		0.0005 (J)	
9/10/2021		0.0024		0.00014 (J)		0.00028 (J)
Mean	0.001907	0.003673	0.000374	0.000376	0.000618	0.0004279
Std. Dev.	0.0004978	0.002056	0.0007325	0.0007316	0.0006665	0.0007463
Upper Lim.	0.0021	0.004866	0.0005	0.0005	0.0005	0.00028
Lower Lim.	0.0017	0.002215	0.0001	0.00014	0.00038	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (J)	0.0045
8/31/2016				0.0054		
9/1/2016		0.0165	0.008			
9/7/2016	0.0021 (J)					
12/6/2016				0.0064	0.0034	0.005
12/8/2016	0.0023 (J)	0.0116	0.0086			
3/28/2017				0.0049		0.0052
3/29/2017					0.0031	
3/30/2017			0.0106			
3/31/2017	0.0025 (J)	0.0112				
7/11/2017				0.005	0.0022 (J)	0.0048
7/13/2017	0.0025 (J)	0.0098	0.0106			
10/24/2017					0.0042	0.0051
10/25/2017	0.0026 (J)			0.0069		
10/26/2017		0.0119	0.0078			
2/27/2018				0.0086	0.0047	0.0057
2/28/2018	<0.0005					
3/1/2018		0.0146				
3/2/2018			0.0096			
7/11/2018	0.0029 (J)					0.0058
7/12/2018		0.013	0.0086			
11/6/2018				0.01	<0.003 (J)	0.006
11/7/2018	0.0031	0.014	0.0078			
8/27/2019				0.01		0.007
8/28/2019	0.0023 (J)				0.0021 (J)	
8/29/2019		0.011	0.0081			
10/16/2019				0.0072	0.0019 (J)	
10/17/2019	0.0027 (J)	0.0093				0.0063
10/18/2019			0.0099			
3/2/2020				0.0098		
3/3/2020					0.0018 (J)	0.0048
3/4/2020	0.0029 (J)	0.01	0.008			
8/11/2020						0.0062
8/12/2020		0.0068		0.0081	0.0018 (J)	
8/13/2020	0.0026 (J)		0.0071			
9/22/2020	0.0013 (J)			0.0081		0.0049
9/23/2020		0.0069	0.0072		0.0015 (J)	
3/2/2021				0.0063	0.0012	0.005
3/3/2021	0.0023	0.0081	0.0068			
9/10/2021		0.009	0.007	0.0075		0.0049
9/13/2021	0.0024				0.0015	
Mean	0.002333	0.01091	0.00838	0.007443	0.002443	0.005413
Std. Dev.	0.0006576	0.002797	0.00126	0.001758	0.00107	0.000712
Upper Lim.	0.002738	0.01281	0.009234	0.008688	0.003201	0.005896
Lower Lim.	0.002049	0.009018	0.007526	0.006197	0.001685	0.004931

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-104D	B-56	B-62	B-63
10/6/2016					9E-05 (J)	
10/7/2016						0.0004 (J)
2/19/2018						0.00049 (J)
1/28/2019						<0.0005
1/30/2019					<0.0005	
9/11/2019					0.00012 (J)	0.00035 (J)
10/21/2019					7.8E-05 (J)	
10/22/2019						0.0003 (J)
8/13/2020					0.00011 (J)	
8/17/2020	0.0004 (J)			0.0013 (J)		
9/24/2020					0.00013 (J)	
9/25/2020	0.00035 (J)					
9/28/2020				0.0012 (J)		
12/9/2020			0.0013 (J)			
12/17/2020		0.0014 (J)				
1/11/2021		0.0013 (J)				
1/12/2021			0.0015 (J)			
3/3/2021				0.0011		
3/4/2021		0.0012	0.0015			
3/8/2021	0.00046 (J)					
3/12/2021					<0.0005	
9/9/2021					0.00014 (J)	
9/10/2021		0.0011				
9/13/2021	0.00053			0.0012		
9/14/2021			0.0011			0.00042 (J)
Mean	0.000435	0.00125	0.00135	0.0012	0.0002085	0.00041
Std. Dev.	7.767E-05	0.0001291	0.0001915	8.165E-05	0.000181	7.797E-05
Upper Lim.	0.0006113	0.001543	0.001785	0.001385	0.0005	0.0004803
Lower Lim.	0.0002587	0.0009569	0.0009153	0.001015	7.8E-05	0.0003037

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-93	B-98
9/18/2019	0.00011 (J)				
9/23/2019		0.0015 (J)			
10/21/2019		0.0011 (J)	0.00039 (J)		
10/24/2019	<0.0005				
12/19/2019				0.0069	
2/17/2020					<0.0005
2/27/2020					<0.0005
8/13/2020	0.00014 (J)				
8/14/2020			0.0007 (J)		
8/17/2020		0.0014 (J)			
8/19/2020				0.015	
9/24/2020	5.3E-05 (J)				
9/25/2020			0.00028 (J)		
9/28/2020		0.0015 (J)		0.015	
3/4/2021	5.7E-05 (J)		0.00037 (J)		
3/9/2021				0.017	
3/15/2021					<0.0005
9/14/2021	<0.0005	0.0017			
9/15/2021				0.015	0.00087
9/16/2021			0.00028 (J)		
Mean	0.0002267	0.00144	0.000404	0.01378	0.0005925
Std. Dev.	0.0002142	0.0002191	0.000173	0.003942	0.000185
Upper Lim.	0.0001464	0.001807	0.0006999	0.01805	0.00087
Lower Lim.	4.658E-05	0.001073	0.0001718	0.006467	0.0005

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0012	<0.0005				
9/1/2016			0.0004 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0003 (J)
12/6/2016	0.0013	<0.0005				
12/7/2016			0.0003 (J)	0.0002 (J)	9E-05 (J)	
12/8/2016						0.0003 (J)
3/29/2017	0.0013	<0.0005	0.0003 (J)			
3/30/2017				8E-05 (J)	9E-05 (J)	0.0003 (J)
7/12/2017	0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	0.0002 (J)
10/24/2017	0.0014	<0.0005				
10/25/2017			0.0004 (J)		<0.0005	0.0002 (J)
11/15/2017				<0.0005		
2/27/2018	0.001	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.00033 (J)		<0.0005	0.00029 (J)
11/6/2018	0.0012	<0.0005				
11/7/2018			<0.001 (J)	<0.0005	<0.001 (J)	<0.0005
8/27/2019	0.00077 (J)	0.00012 (J)	0.00037 (J)			0.00033 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00035 (J)			
10/15/2019	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00029 (J)
3/2/2020		<0.0005	<0.0005			
3/3/2020	0.00095 (J)			<0.0005	0.00012 (J)	
3/4/2020						0.00028 (J)
8/11/2020	0.00071 (J)	<0.0005	0.00038 (J)			
8/12/2020				<0.0005		
8/13/2020					0.00013 (J)	
8/14/2020						0.00029 (J)
9/22/2020		0.00016 (J)	0.00017 (J)			
9/23/2020				<0.0005	<0.0005	
9/24/2020	0.00055 (J)					0.00024 (J)
3/2/2021		0.00013 (J)		<0.0005	<0.0005	
3/3/2021			0.00016 (J)			0.00023 (J)
3/4/2021	0.00088					
9/9/2021		<0.0005	<0.0005	<0.0005	<0.0005	
9/10/2021	0.00061					
9/13/2021						0.00023 (J)
Mean	0.001009	0.0004221	0.0003944	0.0004486	0.0004287	0.0002987
Std. Dev.	0.0002801	0.0001549	0.0001917	0.0001328	0.0002377	9.062E-05
Upper Lim.	0.001207	0.0005	0.0003426	0.0005	0.001	0.00033
Lower Lim.	0.0008102	0.00016	0.0002257	0.0002	0.00012	0.00023

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0004 (J)					
9/2/2016			0.0023	0.0006 (J)	0.0003 (J)	
12/7/2016	0.0004 (J)		0.0023			
12/8/2016				0.0006 (J)	0.0004 (J)	
3/29/2017	0.0004 (J)		0.0021		0.0004 (J)	
3/30/2017		0.0005 (J)		0.0008 (J)		0.0002 (J)
5/11/2017		0.0004 (J)				
5/12/2017						0.0003 (J)
6/15/2017		0.0003 (J)				0.0002 (J)
7/11/2017		0.0003 (J)				
7/12/2017	0.0004 (J)		0.0021	0.0006 (J)		0.0002 (J)
7/13/2017					0.0005 (J)	
10/24/2017		0.0003 (J)				
10/25/2017	0.0004 (J)		0.002	0.0005 (J)	0.0007 (J)	
10/26/2017						0.0003 (J)
2/27/2018		<0.0005				
2/28/2018	<0.0005		0.0018	<0.0005	<0.0005	
3/1/2018						<0.0005
7/11/2018	0.00039 (J)	0.00018 (J)	0.0018	0.00054 (J)		
7/12/2018					0.00091 (J)	0.00028 (J)
11/6/2018		<0.001 (J)				
11/7/2018	<0.001 (J)		0.0018	<0.001 (J)	<0.001 (J)	
11/8/2018						<0.001 (J)
8/27/2019		0.00012 (J)				
8/28/2019	0.00033 (J)					
8/29/2019			0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)
10/16/2019	0.00034 (J)					
10/17/2019		0.00013 (J)	0.0017 (J)	0.0006 (J)		
10/18/2019					0.00056 (J)	0.00022 (J)
3/3/2020	0.00037 (J)	0.00014 (J)		0.00063 (J)	0.00061 (J)	
3/4/2020			0.0026			0.00024 (J)
8/11/2020	0.0003 (J)	<0.0005				
8/13/2020			0.0021 (J)			0.00027 (J)
8/14/2020				0.00054 (J)	0.00057 (J)	
9/22/2020	0.00036 (J)		0.0014 (J)			
9/23/2020		0.00013 (J)				
9/24/2020				0.00073 (J)	0.00058 (J)	0.00018 (J)
3/2/2021	0.00035 (J)	<0.0005	0.0025			
3/3/2021				0.00044 (J)	0.0005	0.00015 (J)
9/9/2021	0.00037 (J)	<0.0005		0.00012 (J)		0.00019 (J)
9/10/2021			0.0012		0.00061	
Mean	0.0004207	0.0003667	0.00198	0.0006047	0.000578	0.0002967
Std. Dev.	0.0001665	0.0002335	0.0003802	0.0002024	0.0001826	0.0002115
Upper Lim.	0.0005	0.0002846	0.002238	0.0007418	0.0007017	0.0003
Lower Lim.	0.00034	0.0001314	0.001722	0.0004675	0.0004543	0.00019

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0019
8/31/2016					0.0002 (J)	
9/1/2016			0.0017	0.0013		
9/7/2016		0.0007 (J)				
12/6/2016					0.0004 (J)	0.0025
12/8/2016		0.0003 (J)	0.0002 (J)	0.0042		
3/28/2017	0.0006 (J)				0.0002 (J)	
3/29/2017						0.0024
3/30/2017				0.0089		
3/31/2017		0.0009 (J)	0.002			
5/12/2017	0.0006 (J)					
6/15/2017	0.0005 (J)					
7/11/2017	0.0006 (J)				0.0003 (J)	0.0021
7/13/2017		0.0008 (J)	0.0017	0.0033		
10/24/2017	0.0007 (J)					0.0029
10/25/2017		0.0005 (J)			0.0006 (J)	
10/26/2017			0.0015	0.0032		
2/27/2018	<0.0005				<0.0005	0.0029
2/28/2018		<0.0005				
3/1/2018			0.0025			
3/2/2018				0.0049		
7/11/2018		0.0024				
7/12/2018			0.0021	0.0032		
11/6/2018	<0.001 (J)				<0.001 (J)	0.0027
11/7/2018		<0.001 (J)	0.0016	0.0031		
8/27/2019	0.00072 (J)				0.00082 (J)	
8/28/2019		0.0015 (J)				0.0022 (J)
8/29/2019			0.0021 (J)	0.003		
10/15/2019	0.00077 (J)					
10/16/2019					0.00069 (J)	0.0022 (J)
10/17/2019		0.00058 (J)	0.0033			
10/18/2019				0.0028		
3/2/2020	0.00088 (J)				0.00089 (J)	
3/3/2020						0.002 (J)
3/4/2020		0.00037 (J)	0.0017 (J)	0.0036		
8/12/2020	0.0008 (J)		0.001 (J)		0.00079 (J)	0.0021 (J)
8/13/2020		0.0013 (J)		0.0028		
9/22/2020	0.00065 (J)	0.0007 (J)			0.00072 (J)	
9/23/2020			0.0013 (J)	0.0025		0.0018 (J)
3/1/2021	0.00085					
3/2/2021					0.00075	0.0017
3/3/2021		0.00038 (J)	0.0016	0.0033		
9/10/2021	0.0009		0.0014	0.0028	0.00093	
9/13/2021		0.00042 (J)				0.002
Mean	0.0007193	0.0008233	0.001713	0.003527	0.0006279	0.002243
Std. Dev.	0.0001538	0.0005572	0.0006896	0.001682	0.0002677	0.0003857
Upper Lim.	0.0008282	0.001109	0.002181	0.0042	0.0008175	0.002516
Lower Lim.	0.0006103	0.0004679	0.001246	0.0025	0.0004382	0.00197

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-102D	B-56	B-63	B-82
8/30/2016	0.0004 (J)					
12/6/2016	0.0005 (J)					
3/28/2017	0.0005 (J)					
7/11/2017	0.0005 (J)					
10/24/2017	0.0006 (J)					
2/27/2018	<0.0005					
7/11/2018	0.00067 (J)					
11/6/2018	<0.001 (J)					
1/28/2019					<0.0005	
8/27/2019	0.00071 (J)					
9/11/2019					<0.0005	
9/23/2019						0.00044 (J)
10/17/2019	0.00064 (J)					
10/21/2019						0.00035 (J)
10/22/2019					0.00014 (J)	
3/3/2020	0.00059 (J)					
8/11/2020	0.00059 (J)					
8/17/2020		0.00059 (J)		0.00029 (J)		0.00058 (J)
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
9/28/2020				0.00024 (J)		0.00066 (J)
12/17/2020			0.00067 (J)			
1/11/2021			0.0008 (J)			
3/2/2021	0.00057					
3/3/2021				0.00026 (J)		
3/4/2021			0.00081			
3/8/2021		0.00027 (J)				
9/10/2021	0.00053		0.00083			
9/13/2021		0.00029 (J)		0.00028 (J)		
9/14/2021					0.00025 (J)	0.0007
Mean	0.0005927	0.000355	0.0007775	0.0002675	0.0003475	0.000546
Std. Dev.	0.0001373	0.000157	7.274E-05	2.217E-05	0.0001817	0.0001479
Upper Lim.	0.0006732	0.00059	0.0009243	0.0003178	0.0003199	0.0007939
Lower Lim.	0.0005032	0.00027	0.0006021	0.0002172	7.013E-05	0.0002981

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
10/21/2019	0.00041 (J)		
8/14/2020	0.00037 (J)		
8/17/2020		0.0018 (J)	
8/19/2020			0.00077 (J)
9/25/2020	0.00026 (J)	0.00022 (J)	
9/28/2020			0.00074 (J)
3/4/2021	0.00032 (J)		
3/5/2021		0.0065	
3/9/2021			0.00075 (J)
9/13/2021		0.0013	
9/15/2021			0.00088
9/16/2021	0.0003 (J)		
Mean	0.000332	0.002455	0.000785
Std. Dev.	5.891E-05	0.002776	6.455E-05
Upper Lim.	0.0004307	0.008758	0.0009316
Lower Lim.	0.0002333	-0.003848	0.0006384

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	<0.005	<0.005				
9/1/2016			<0.005			
9/6/2016				<0.005	<0.005	
9/7/2016						0.0026 (J)
12/6/2016	<0.005	<0.005				
12/7/2016			<0.005	<0.005	<0.005	
12/8/2016						0.0025 (J)
3/29/2017	0.0008 (J)	<0.005	<0.005			
3/30/2017				0.0009 (J)	0.0005 (J)	0.0026 (J)
7/12/2017	0.0006 (J)	<0.005	<0.005	<0.005	<0.005	0.0022 (J)
10/24/2017	0.0007 (J)	<0.005				
10/25/2017			<0.005		<0.005	0.0024 (J)
11/15/2017				<0.005		
2/27/2018	<0.005	<0.005	<0.005			
2/28/2018				<0.005	<0.005	<0.005
7/11/2018			<0.005		<0.005	0.0024 (J)
11/6/2018	<0.005	<0.005				
11/7/2018			<0.005	<0.005	<0.01 (J)	<0.005
8/27/2019	0.00083 (J)	0.0006 (J)	<0.005			0.0031 (J)
8/28/2019				<0.005	<0.005	
9/17/2019			<0.005			
10/15/2019	0.00078 (J)	<0.005	<0.005			
10/16/2019				<0.005		
10/17/2019					0.00058 (J)	
10/18/2019						0.0027 (J)
3/2/2020		0.0006 (J)	<0.005			
3/3/2020	0.00092 (J)			0.00066 (J)	0.00046 (J)	
3/4/2020						0.0035 (J)
8/11/2020	0.00097 (J)	0.00061 (J)	0.00094 (J)			
8/12/2020				0.00074 (J)		
8/13/2020					0.0048 (J)	
8/14/2020						0.0033 (J)
9/22/2020		0.00058 (J)	<0.005			
9/23/2020				0.00059 (J)	<0.005	
9/24/2020	0.001 (J)					0.0029 (J)
3/2/2021		<0.005		<0.005	<0.005	
3/3/2021			0.00099 (J)			0.0028 (J)
3/4/2021	0.0009 (J)					
9/9/2021		<0.005	<0.005	<0.005	<0.005	
9/10/2021	<0.005					
9/13/2021						0.0027 (J)
Mean	0.002321	0.003742	0.004496	0.003778	0.004423	0.003047
Std. Dev.	0.002074	0.002064	0.001378	0.002006	0.002397	0.0008651
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0035
Lower Lim.	0.00078	0.0006	0.00099	0.00074	0.00058	0.0024

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0031 (J)					
9/2/2016			0.0017 (J)	<0.005	0.0012 (J)	
12/7/2016	<0.005		<0.005			
12/8/2016				<0.005	<0.005	
3/29/2017	0.0025 (J)		0.0016 (J)		<0.005	
3/30/2017		0.0005 (J)		0.0005 (J)		0.0012 (J)
5/11/2017		0.0005 (J)				
5/12/2017						0.0004 (J)
6/15/2017		<0.005				0.0005 (J)
7/11/2017		<0.005				
7/12/2017	0.0023 (J)		<0.005	0.0006 (J)		0.0007 (J)
7/13/2017					<0.005	
10/24/2017		<0.005				
10/25/2017	0.0024 (J)		0.0015 (J)	<0.005	<0.005	
10/26/2017						0.0007 (J)
2/27/2018		<0.005				
2/28/2018	<0.005		<0.005	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.0022 (J)	<0.005	<0.005	<0.005		
7/12/2018					<0.005	<0.005
11/6/2018		<0.005				
11/7/2018	<0.01 (J)		<0.01 (J)	<0.005	<0.005	
11/8/2018						<0.005
8/27/2019		0.0004 (J)				
8/28/2019	0.0028 (J)					
8/29/2019			0.0017 (J)	0.00041 (J)	<0.005	<0.005
10/16/2019	0.0024 (J)					
10/17/2019		0.00046 (J)	0.0015 (J)	<0.005		
10/18/2019					<0.005	0.00041 (J)
3/3/2020	0.0028 (J)	<0.005		0.00048 (J)	<0.005	
3/4/2020			0.0032 (J)			0.00081 (J)
8/11/2020	0.0024 (J)	0.00067 (J)				
8/13/2020			0.0023 (J)			0.00085 (J)
8/14/2020				<0.005	<0.005	
9/22/2020	0.003 (J)		0.0013 (J)			
9/23/2020		<0.005				
9/24/2020				0.00096 (J)	<0.005	0.00084 (J)
3/2/2021	0.0024 (J)	0.00064 (J)	0.0022 (J)			
3/3/2021				0.002 (J)	<0.005	0.0014 (J)
9/9/2021	0.003 (J)	<0.005		<0.005		<0.005
9/10/2021			<0.005		<0.005	
Mean	0.00342	0.003211	0.003467	0.00333	0.004747	0.002187
Std. Dev.	0.002022	0.002268	0.002385	0.002148	0.0009812	0.002075
Upper Lim.	0.005	0.005	0.002136	0.005	0.005	0.005
Lower Lim.	0.0023	0.0005	0.001443	0.0005	0.0012	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.005
8/31/2016					<0.005	
9/1/2016			<0.005	<0.005		
9/7/2016		<0.005				
12/6/2016					<0.005	<0.005
12/8/2016		<0.005	<0.005	<0.005		
3/28/2017	0.0005 (J)				<0.005	
3/29/2017						0.0004 (J)
3/30/2017				<0.005		
3/31/2017		0.001 (J)	0.0007 (J)			
5/12/2017	<0.005					
6/15/2017	<0.005					
7/11/2017	<0.005				<0.005	<0.005
7/13/2017		0.0008 (J)	<0.005	0.0007 (J)		
10/24/2017	<0.005					<0.005
10/25/2017		0.0005 (J)			<0.005	
10/26/2017			<0.005	<0.005		
2/27/2018	<0.005				<0.005	<0.005
2/28/2018		<0.005				
3/1/2018			<0.005			
3/2/2018				<0.005		
7/11/2018		<0.005				
7/12/2018			<0.005	<0.005		
11/6/2018	<0.005				<0.005	<0.005
11/7/2018		<0.005	<0.005	<0.005		
8/27/2019	<0.005				<0.005	
8/28/2019		<0.005				<0.005
8/29/2019			<0.005	<0.005		
10/15/2019	<0.005					
10/16/2019					<0.005	0.0013 (J)
10/17/2019		0.00041 (J)	<0.005			
10/18/2019				<0.005		
3/2/2020	<0.005				0.00045 (J)	
3/3/2020						0.00061 (J)
3/4/2020		0.00042 (J)	<0.005	0.0004 (J)		
8/12/2020	<0.005		<0.005		<0.005	0.0028 (J)
8/13/2020		0.0021 (J)		<0.005		
9/22/2020	<0.005	0.001 (J)			<0.005	
9/23/2020			<0.005	<0.005		0.00086 (J)
3/1/2021	<0.005					
3/2/2021					<0.005	0.0015 (J)
3/3/2021		<0.005	<0.005	<0.005		
9/10/2021	<0.005		<0.005	<0.005	<0.005	
9/13/2021		<0.005				<0.005
Mean	0.004679	0.003082	0.004713	0.004407	0.004675	0.003391
Std. Dev.	0.001203	0.002157	0.00111	0.001567	0.001216	0.002002
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0005	0.0007	0.0007	0.00045	0.00086

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-104D	B-56	B-62	B-63
8/30/2016	<0.005					
12/6/2016	<0.005					
3/28/2017	0.001 (J)					
7/11/2017	<0.005					
10/24/2017	<0.005					
2/27/2018	<0.005					
7/11/2018	<0.005					
11/6/2018	<0.005					
1/28/2019						<0.005
1/30/2019					<0.005	
8/27/2019	0.00048 (J)					
9/11/2019					<0.005	<0.005
10/17/2019	0.00051 (J)					
10/21/2019					0.00098 (J)	
10/22/2019						0.00064 (J)
3/3/2020	0.0057 (J)					
8/11/2020	0.00061 (J)					
8/13/2020					<0.005	
8/17/2020		<0.005		0.0014 (J)		
9/22/2020	<0.005					
9/24/2020					<0.005	
9/25/2020		0.00094 (J)				
9/28/2020				<0.005		
12/9/2020			0.0011 (J)			
1/12/2021			<0.005			
3/2/2021	0.00059 (J)					
3/3/2021				0.00059 (J)		
3/4/2021			<0.005			
3/8/2021		0.00057 (J)				
3/12/2021					<0.005	
9/9/2021					<0.005	
9/10/2021	<0.005					
9/13/2021		<0.005		<0.005		
9/14/2021			<0.005			<0.005
Mean	0.003593	0.002877	0.004025	0.002997	0.004426	0.00391
Std. Dev.	0.002173	0.002456	0.00195	0.002336	0.001519	0.00218
Upper Lim.	0.0057	0.001223	0.005	0.001914	0.005	0.005
Lower Lim.	0.00059	0.0003828	0.0011	7.551E-05	0.00098	0.00064

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-88	B-93
9/18/2019	0.00068 (J)			
9/23/2019		0.0011 (J)		
10/21/2019		<0.005		
10/24/2019	<0.005			
8/13/2020	0.0021 (J)			
8/17/2020		<0.005	0.0014 (J)	
8/19/2020				0.00057 (J)
9/24/2020	0.0007 (J)			
9/25/2020			0.00085 (J)	
9/28/2020		<0.005		0.00066 (J)
3/4/2021	0.00098 (J)			
3/5/2021			0.0017 (J)	
3/9/2021				<0.005
9/13/2021			<0.005	
9/14/2021	<0.005	<0.005		
9/15/2021				<0.005
Mean	0.00241	0.00422	0.002237	0.002807
Std. Dev.	0.002072	0.001744	0.001875	0.002532
Upper Lim.	0.001858	0.005	0.002116	0.005
Lower Lim.	0.0005328	0.0011	0.0005176	0.00057

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.193	<0.005				
9/1/2016			0.0021 (J)			
9/6/2016				<0.005	0.0042 (J)	
9/7/2016						0.0247
12/6/2016	0.2	0.0006 (J)				
12/7/2016			0.0026 (J)	<0.005	0.0028 (J)	
12/8/2016						0.029
3/29/2017	0.184	<0.005	0.0026 (J)			
3/30/2017				0.0005 (J)	0.0024 (J)	0.0283
7/12/2017	0.177	<0.005	0.0033 (J)	0.0004 (J)	0.002 (J)	0.023
10/24/2017	0.175	<0.005				
10/25/2017			0.0021 (J)		0.0019 (J)	0.0259
11/15/2017				<0.005		
2/27/2018	0.2	<0.005	<0.005			
2/28/2018				<0.005	<0.005	0.02
7/11/2018			0.002 (J)		0.0018 (J)	0.025
11/6/2018	0.2	<0.005				
11/7/2018			<0.01 (J)	<0.005	0.025	<0.01 (J)
8/27/2019	0.13	0.00076 (J)	0.0021 (J)			0.031
8/28/2019				<0.005	0.0015 (J)	
9/17/2019			0.0079			
10/15/2019	0.17	0.0006 (J)	0.0058			
10/16/2019				<0.005		
10/17/2019					0.0018 (J)	
10/18/2019						0.023
3/2/2020		0.00078 (J)	0.029			
3/3/2020	0.18			<0.005	0.0018 (J)	
3/4/2020						0.023
8/11/2020	0.11	0.00055 (J)	0.006			
8/12/2020				<0.005		
8/13/2020					0.0024 (J)	
8/14/2020						0.026
9/22/2020		0.00098 (J)	0.013			
9/23/2020				0.00038 (J)	0.0018 (J)	
9/24/2020	0.086					0.028
3/2/2021		0.00065 (J)		<0.005	0.0013 (J)	
3/3/2021			0.01			0.016
3/4/2021	0.071					
9/9/2021		0.00081 (J)	0.034	<0.005	0.0016 (J)	
9/10/2021	0.076					
9/13/2021						0.019
Mean	0.1537	0.001481	0.008125	0.002056	0.003653	0.02313
Std. Dev.	0.04866	0.0009221	0.009711	0.0008832	0.005947	0.00641
Upper Lim.	0.1888	0.0025	0.013	0.0025	0.0028	0.02716
Lower Lim.	0.1413	0.0006	0.0021	0.0005	0.0016	0.02022

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0553					
9/2/2016			0.497	0.0085 (J)	0.0102	
12/7/2016	0.0561		0.614			
12/8/2016				0.0095 (J)	0.0079 (J)	
3/29/2017	0.0534		0.443		0.0097 (J)	
3/30/2017		0.0255		0.0076 (J)		<0.005
5/11/2017		0.0284				
5/12/2017						<0.005
6/15/2017		0.0238				0.0003 (J)
7/11/2017		0.0238				
7/12/2017	0.0489		0.538	0.0092 (J)		<0.005
7/13/2017					0.0106	
10/24/2017		0.0292				
10/25/2017	0.0514		0.432	0.0092 (J)	0.0094 (J)	
10/26/2017						<0.005
2/27/2018		0.042				
2/28/2018	0.0511		0.459	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.051	0.02	0.47	0.0097 (J)		
7/12/2018					0.011	<0.005
11/6/2018		0.024				
11/7/2018	0.048		0.42	<0.01 (J)	<0.01 (J)	
11/8/2018						<0.01 (J)
8/27/2019		0.0088				
8/28/2019	0.048					
8/29/2019			0.66	0.01	0.0094	0.00036 (J)
10/16/2019	0.046					
10/17/2019		0.0084	0.57	0.01		
10/18/2019					0.0084	<0.005
3/3/2020	0.054	0.0073		0.01	0.0098	
3/4/2020			0.84			0.00043 (J)
8/11/2020	0.049	0.0064				
8/13/2020			0.73			0.00048 (J)
8/14/2020				0.0098	0.0087	
9/22/2020	0.051		0.47			
9/23/2020		0.0062				
9/24/2020				0.01	0.01	<0.005
3/2/2021	0.051	0.0055	0.77			
3/3/2021				0.0087	0.0078	0.00039 (J)
9/9/2021	0.055	0.0048 (J)		0.0096		0.00049 (J)
9/10/2021			0.45		0.0076	
Mean	0.05128	0.01761	0.5575	0.00862	0.008533	0.00183
Std. Dev.	0.002996	0.01155	0.1355	0.002141	0.002244	0.001357
Upper Lim.	0.05331	0.0284	0.6394	0.009773	0.009945	0.005
Lower Lim.	0.04925	0.0062	0.4659	0.008552	0.007492	0.00039

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0568
8/31/2016					0.055	
9/1/2016			0.536	0.539		
9/7/2016		0.0695				
12/6/2016					0.0432	0.0873
12/8/2016		0.0652	0.381	0.575		
3/28/2017	0.0018 (J)				0.04	
3/29/2017						0.0902
3/30/2017				0.573		
3/31/2017		0.0524	0.354			
5/12/2017	0.0015 (J)					
6/15/2017	0.0015 (J)					
7/11/2017	0.0015 (J)				0.0351 (J)	0.0601
7/13/2017		0.0481	0.396	0.531		
10/24/2017	0.0017 (J)					0.123
10/25/2017		0.0435			0.0209	
10/26/2017			0.383	0.482		
2/27/2018	<0.005				0.024	0.126
2/28/2018		0.0167				
3/1/2018			0.401			
3/2/2018				0.49		
7/11/2018		0.019				
7/12/2018			0.36	0.46		
11/6/2018	<0.01 (J)				0.019	0.077
11/7/2018		0.02	0.35	0.48		
8/27/2019	0.0018 (J)				0.02	
8/28/2019		0.029				0.051
8/29/2019			0.28	0.42		
10/15/2019	0.0018 (J)					
10/16/2019					0.022	0.054
10/17/2019		0.03	0.26			
10/18/2019				0.41		
3/2/2020	0.0021 (J)				0.028	
3/3/2020						0.044
3/4/2020		0.014	0.28	0.42		
8/12/2020	0.0018 (J)		0.21		0.021	0.053
8/13/2020		0.025		0.35		
9/22/2020	0.0014 (J)	0.014			0.02	
9/23/2020			0.17	0.37		0.04
3/1/2021	0.002 (J)					
3/2/2021					0.021	0.033
3/3/2021		0.0087	0.2	0.36		
9/10/2021	0.0019 (J)		0.23	0.36	0.022	
9/13/2021		0.008				0.028
Mean	0.002021	0.03087	0.3194	0.4547	0.02794	0.06596
Std. Dev.	0.000904	0.02013	0.09792	0.07771	0.01109	0.03083
Upper Lim.	0.0021	0.04451	0.3858	0.5073	0.04	0.0878
Lower Lim.	0.0015	0.01723	0.253	0.402	0.02	0.04412

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-102D	B-104D	B-111D	B-56	B-62
8/30/2016	0.0896					
12/6/2016	0.122					
3/28/2017	0.124					
7/11/2017	0.136					
10/24/2017	0.151					
2/27/2018	0.163					
7/11/2018	0.18					
11/6/2018	0.2					
1/30/2019						<0.005
8/27/2019	0.24					
9/11/2019						0.0003 (J)
10/17/2019	0.21					
10/21/2019						0.00031 (J)
3/3/2020	0.2					
8/11/2020	0.22					
8/13/2020						<0.005
8/17/2020					0.042	
9/22/2020	0.16					
9/24/2020						<0.005
9/28/2020					0.042	
12/9/2020			0.17	0.00076 (J)		
12/17/2020		0.014				
1/11/2021		0.015				
1/12/2021			0.19	0.0007 (J)		
3/2/2021	0.18					
3/3/2021					0.05	
3/4/2021		0.014	0.19			
3/5/2021				0.00052 (J)		
3/12/2021						<0.005
9/9/2021						<0.005
9/10/2021	0.21	0.013				
9/13/2021					0.047	
9/14/2021			0.1	<0.005		
Mean	0.1724	0.014	0.1625	0.00112	0.04525	0.001873
Std. Dev.	0.04231	0.0008165	0.04272	0.0009256	0.003948	0.001071
Upper Lim.	0.201	0.01585	0.2361	0.0009228	0.05421	0.0025
Lower Lim.	0.1437	0.01215	-0.01451	0.0004439	0.03629	0.0003

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-82	B-93
1/28/2019	0.053			
1/30/2019		<0.005		
9/11/2019	0.043			
9/12/2019		0.006		
9/23/2019			0.0038 (J)	
10/21/2019		0.0074	0.0089	
10/22/2019	0.046			
12/19/2019				0.066
8/17/2020			0.0028 (J)	
8/19/2020				0.068
9/28/2020			0.0053	0.064
3/9/2021				0.061
3/12/2021	0.046	0.01	0.0021 (J)	
9/14/2021	0.037	0.012	0.0015 (J)	
9/15/2021				0.062
Mean	0.045	0.00758	0.004067	0.0642
Std. Dev.	0.005788	0.003665	0.002721	0.002864
Upper Lim.	0.0547	0.01241	0.007804	0.069
Lower Lim.	0.0353	0.003754	0.0003291	0.0594

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1.08	1.09			0.997 (U)	
9/1/2016			1.11			
9/6/2016				1.32		0.731 (U)
12/6/2016	1.31	0.409 (U)			0.659 (U)	
12/7/2016			2.66	1.76		1.73
3/29/2017	1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017				1.59		0.276 (U)
7/12/2017	0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
10/24/2017	0.838 (U)	0.98 (U)				
10/25/2017			0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017				1.08 (U)		
2/27/2018	1.55	1.14	0.83		0.695 (U)	
2/28/2018				0.721 (U)		1.25
7/10/2018	1.65	0.495 (U)		0.746 (U)		
7/11/2018			0.728 (U)		1.04 (U)	2.13
11/6/2018	1.46	1.41				
11/7/2018			0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019				1.43		1.01 (U)
10/15/2019	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019				1.73	1.04 (U)	
10/17/2019						1.03 (U)
3/2/2020		1.3	1.2 (U)			
3/3/2020	1.69			1.03	1.44	0.293 (U)
8/11/2020	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020				1.63		
8/13/2020						3.58
9/22/2020		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020				0.935 (U)		1.69 (U)
9/24/2020	1.39					
3/2/2021		0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021			1.85			
3/4/2021	1.48					
9/9/2021		1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)
9/10/2021	0.882 (U)					
Mean	1.284	0.9694	0.8984	1.26	0.8972	1.118
Std. Dev.	0.314	0.4467	0.714	0.3303	0.303	0.8748
Upper Lim.	1.497	1.272	1.27	1.484	1.103	1.553
Lower Lim.	1.071	0.6667	0.4013	1.036	0.6919	0.551

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		1.07 (U)				
9/2/2016				1.48	0.908 (U)	1.54
9/7/2016	1.17					
12/7/2016		0.903 (U)		1.26 (U)		
12/8/2016	1.65				1.03 (U)	0.505 (U)
3/29/2017		0.302 (U)		0.373 (U)		0.715 (U)
3/30/2017	0.865 (U)		0.737 (U)		0.884 (U)	
5/11/2017			0.892 (U)			
6/15/2017			0.979 (U)			
7/11/2017			0.871 (U)			
7/12/2017	0.362 (U)	0.283 (U)		0.91 (U)	1.22	
7/13/2017						1.14
10/24/2017			1.19			
10/25/2017	0.401 (U)	0.927 (U)		0.853 (U)	1.07 (U)	1.6
2/27/2018			0.863 (U)			
2/28/2018	1.1 (U)	0.813 (U)		0.727 (U)	1.45	0.918 (U)
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)	1.3	1.59	
7/12/2018						0.981 (U)
11/6/2018			0.664			
11/7/2018	0.795 (U)	1.02		0.746 (U)	1.16	0.832 (U)
8/27/2019	1.12		1.6			
8/28/2019		0.661 (U)				
8/29/2019				0.996 (U)	0.582 (U)	1.87
10/16/2019		1.79				
10/17/2019			1.74	2	0.427 (U)	
10/18/2019	0.89 (U)					1.1 (U)
3/3/2020		0.383 (U)	1.23		0.567 (U)	0.517 (U)
3/4/2020	0.493 (U)			1.67		
8/11/2020		0.723 (U)	1.37			
8/13/2020				1.77		
8/14/2020	0.804 (U)				0.602 (U)	1.83
9/22/2020		0.96 (U)		1.61 (U)		
9/23/2020			1.96 (U)			
9/24/2020	0.369 (U)				0.396 (U)	1.02 (U)
3/2/2021		0.775 (U)	1.54 (U)	1.76		
3/3/2021	0.66 (U)				0.248 (U)	0.547 (U)
9/9/2021		0.239 (U)	1.22 (U)		0.702 (U)	
9/10/2021				0.689 (U)		0.616 (U)
9/13/2021	0.85 (U)					
Mean	0.8113	0.7733	1.168	1.21	0.8557	1.049
Std. Dev.	0.3526	0.3942	0.4067	0.4913	0.3972	0.4659
Upper Lim.	1.05	1.04	1.444	1.543	1.125	1.364
Lower Lim.	0.5723	0.5062	0.8924	0.8767	0.5866	0.733

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						2.49
9/1/2016				4.47	2.37	
9/7/2016			0.876 (U)			
12/6/2016						0.348 (U)
12/8/2016			0.955	2.88	2.87	
3/28/2017		1.36				0.693 (U)
3/30/2017	0.297 (U)				1.71	
3/31/2017			0.102 (U)	1.14		
5/12/2017	0.693 (U)	1.15				
6/15/2017	0.435 (U)	0.765 (U)				
7/11/2017		1.13				1.38
7/12/2017	0.703 (U)					
7/13/2017			1.08 (U)	2.37	1.78	
10/24/2017		1.24				
10/25/2017			1.46			2.06
10/26/2017	0.984 (U)			2.88	3.74	
2/27/2018		1.82				1.97
2/28/2018			0.882 (U)			
3/1/2018	0.743 (U)			2.21		
3/2/2018					2.26	
7/10/2018		1.37				1.03 (U)
7/11/2018			0.924 (U)			
7/12/2018	0.918 (U)			1.73	1.81	
11/6/2018		1.2				1.13
11/7/2018			0.654 (U)	1.72	1.94	
11/8/2018	1.47					
8/27/2019		1.79				1.81
8/28/2019			0.883 (U)			
8/29/2019	2.21			3.05	2.37	
10/15/2019		2.11 (U)				
10/16/2019						1.63
10/17/2019			1.38	2.58		
10/18/2019	1.32				1.42	
3/2/2020		1.99				2.28
3/4/2020	1.39		0.722 (U)	1.68	1.31	
8/12/2020		1.95		2.56		1.13
8/13/2020	1.48 (U)		1.23 (U)		1.74	
9/22/2020		1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020				2.3 (U)	1.51 (U)	
9/24/2020	1.49					
3/1/2021		1.05 (U)				
3/2/2021						0.971 (U)
3/3/2021	1.05 (U)		0.92 (U)	1.27 (U)	1.41	
9/9/2021	1.81					
9/10/2021		1.46		2.32	2.21	1.15
9/13/2021			1.15 (U)			
Mean	1.133	1.454	0.9499	2.344	2.03	1.431
Std. Dev.	0.5259	0.3939	0.3231	0.8249	0.6435	0.6015
Upper Lim.	1.489	1.721	1.169	2.903	2.415	1.839
Lower Lim.	0.7765	1.187	0.7309	1.785	1.602	1.024

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-104D	B-111D	B-56	B-62
8/30/2016	0.919 (U)	1.33				
12/6/2016	0.407 (U)	0.828 (U)				
3/28/2017		1.06				
3/29/2017	0.28 (U)					
7/11/2017	0.209 (U)	0.62 (U)				
10/24/2017	0.615 (U)	1.21				
2/27/2018	1.05 (U)	1.79				
7/10/2018	0.363 (U)					
7/11/2018		1.81				
11/6/2018	0.577 (U)	1.13				
1/30/2019						1.97 (U)
8/27/2019		1.55				
8/28/2019	0.815 (U)					
10/16/2019	0.999 (U)					
10/17/2019		0.702 (U)				
10/21/2019						1.82
3/3/2020	0.481 (U)	1.37				
8/11/2020		0.819 (U)				
8/12/2020	0.721 (U)					
8/13/2020						1.63
8/17/2020					1.15 (U)	
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
9/24/2020						1.28 (U)
9/28/2020					1.39	
12/9/2020			15.2	12.3		
1/12/2021			17	9.63		
3/2/2021	0.751 (U)	1.29 (U)				
3/3/2021					1.01 (U)	
3/4/2021			14.5			
3/5/2021				9.05		
3/12/2021						1.18 (U)
9/9/2021						1.7
9/10/2021		1.28				
9/13/2021	0.916 (U)				0.854 (U)	
9/14/2021			9.6	4.39		
Mean	0.6602	1.196	14.08	8.843	1.101	1.597
Std. Dev.	0.2668	0.3583	3.164	3.288	0.2275	0.3082
Upper Lim.	0.841	1.439	21.26	16.31	1.617	2.02
Lower Lim.	0.4794	0.9531	6.892	1.377	0.5846	1.173

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-93
10/21/2019	0.63 (U)	
8/17/2020	0.662 (U)	
8/19/2020		1.19 (U)
9/28/2020	0.747 (U)	1.54
3/9/2021		0.786 (U)
9/14/2021	1.03 (U)	
9/15/2021		1.84
Mean	0.7673	1.339
Std. Dev.	0.182	0.4544
Upper Lim.	1.18	2.371
Lower Lim.	0.3541	0.3074

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1	0.06 (J)			0.06 (J)	
9/1/2016			0.02 (J)			
9/6/2016				0.17 (J)		0.11 (J)
12/6/2016	1.3	0.06 (J)			0.1 (J)	
12/7/2016			0.16 (J)	0.3		0.11 (J)
3/29/2017	1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017				0.12 (J)		<0.1
7/12/2017	1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
10/24/2017	2.1	<0.1				
10/25/2017			0.6		<0.1	0.26 (J)
11/15/2017	1.4			0.44		
2/27/2018	2.3	<0.1	0.34		<0.1	
2/28/2018				0.18		<0.1
7/11/2018			<0.1		<0.1	<0.1
11/6/2018	2	<0.1				
11/7/2018			<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019	1.7	0.052 (J)	0.065 (J)			
3/13/2019				0.13 (J)	0.042 (J)	
3/14/2019						0.057 (J)
8/27/2019	1.4	<0.1	<0.1		<0.1	
8/28/2019				0.091 (J)		<0.1
10/15/2019	1.4	<0.1	<0.1			
10/16/2019				0.14 (J)	0.052 (J)	
10/17/2019						0.079 (J)
3/2/2020		0.064 (J)	0.071 (J)			
3/3/2020	1.5			0.078 (J)	<0.1	<0.1
8/11/2020	1.4	<0.1	<0.1		<0.1	
8/12/2020				0.051 (J)		
8/13/2020						<0.1
9/22/2020		<0.1	<0.1		<0.1	
9/23/2020				0.058 (J)		<0.1
9/24/2020	0.97					
3/2/2021		<0.1		0.084 (J)	<0.1	<0.1
3/3/2021			0.085 (J)			
3/4/2021	1.8					
9/9/2021		<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1
9/10/2021	2.2					
Mean	1.604	0.0804	0.1588	0.157	0.08588	0.1054
Std. Dev.	0.3955	0.0261	0.1448	0.1093	0.02643	0.04361
Upper Lim.	1.862	0.1	0.1641	0.2134	0.1	0.11
Lower Lim.	1.347	0.052	0.05529	0.08589	0.052	0.079

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
9/2/2016				0.66	0.07 (J)	0.3
9/7/2016	0.32					
12/7/2016		0.37		0.66		
12/8/2016	0.31				0.14 (J)	0.12 (J)
3/29/2017		0.35		0.34		0.11 (J)
3/30/2017	0.1 (J)		0.06 (J)		<0.1	
5/11/2017			0.06 (J)			
6/15/2017			0.07 (J)			
7/11/2017			0.04 (J)			
7/12/2017	0.27 (J)	0.34		0.41	0.04 (J)	
7/13/2017						0.09 (J)
10/24/2017			0.43			
10/25/2017	0.49	0.9		0.68	0.34	0.25 (J)
2/27/2018			0.28			
2/28/2018	0.54	1.2		0.76	<0.1	<0.1
7/11/2018	0.15 (J)	0.37	0.6	1.3	<0.1	
7/12/2018						0.13 (J)
11/6/2018			<0.1			
11/7/2018	<0.3 (J)	<0.3 (J)		<0.3 (J)	<0.1	<0.1
3/12/2019			0.052 (J)			
3/13/2019	0.084 (J)	0.22 (J)		0.45	0.043 (J)	
3/14/2019						0.042 (J)
8/27/2019	0.24 (J)		<0.1			
8/28/2019		0.2				
8/29/2019				0.78	0.079 (J)	0.054 (J)
10/16/2019		0.23 (J)				
10/17/2019			0.042 (J)	0.26 (J)	<0.1	
10/18/2019	0.086 (J)					<0.1
3/3/2020		0.056 (J)	<0.1		<0.1	<0.1
3/4/2020	<0.1			1.5		
8/11/2020		0.2	<0.1			
8/13/2020				0.9		
8/14/2020	0.069 (J)				<0.1	<0.1
9/22/2020		0.084 (J)		0.15		
9/23/2020			<0.1			
9/24/2020	0.056 (J)				<0.1	<0.1
3/2/2021		0.19	<0.1	1.4		
3/3/2021	0.085 (J)				<0.1	<0.1
9/9/2021		0.18	0.053 (J)		<0.1	
9/10/2021				0.25		<0.1
9/13/2021	0.063 (J)					
Mean	0.2039	0.3713	0.1429	0.675	0.107	0.1185
Std. Dev.	0.1552	0.313	0.1586	0.4218	0.06664	0.06532
Upper Lim.	0.2722	0.5135	0.28	0.9494	0.14	0.13
Lower Lim.	0.09774	0.1749	0.052	0.4006	0.07	0.09

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						1
9/1/2016				1.8	1.5	
9/7/2016			0.02 (J)			
12/6/2016						0.76
12/8/2016			0.06 (J)	1.1	1.6	
3/28/2017		0.17 (J)				1.2
3/30/2017	0.12 (J)				0.86	
3/31/2017			<0.1	0.88		
5/12/2017	0.36	<0.1				
6/15/2017	0.21 (J)	0.02 (J)				
7/11/2017		0.02 (J)				0.7
7/12/2017	0.22 (J)					
7/13/2017			<0.1	0.84	1.1	
10/24/2017		<0.1				
10/25/2017			<0.1			1.4
10/26/2017	0.66			1	1.7	
11/15/2017		0.79				
2/27/2018		<0.1				1.3
2/28/2018			<0.1			
3/1/2018	0.18			1.4		
3/2/2018					1.1	
7/11/2018			<0.1			
7/12/2018	0.25 (J)			0.96	0.65	
11/6/2018		<0.1				<0.3 (J)
11/7/2018			<0.1	0.74	0.63	
11/8/2018	<0.3 (J)					
3/12/2019		0.082 (J)				0.31
3/14/2019	0.092 (J)		<0.1	1.6	1.4	
8/27/2019		<0.1				0.32
8/28/2019			<0.1			
8/29/2019	0.095 (J)			0.52	0.78	
10/15/2019		<0.1				
10/16/2019						0.32
10/17/2019			<0.1	0.46		
10/18/2019	0.079 (J)				0.46	
3/2/2020		<0.1				0.33
3/4/2020	0.075 (J)		<0.1	0.74	0.7	
8/12/2020		<0.1		0.22		0.13
8/13/2020	0.1		<0.1		0.47	
9/22/2020		<0.1	<0.1			0.12
9/23/2020				0.11	0.32	
9/24/2020	0.075 (J)					
3/1/2021		<0.1				
3/2/2021						0.15
3/3/2021	0.063 (J)		<0.1	0.71	0.67	
9/9/2021	0.084 (J)					
9/10/2021		<0.1		0.22	0.47	0.16
9/13/2021			<0.1			
Mean	0.1852	0.1364	0.0925	0.8313	0.9006	0.5667
Std. Dev.	0.1558	0.1776	0.02176	0.4835	0.4445	0.4567
Upper Lim.	0.2262	0.17	0.1	1.146	1.19	0.7808
Lower Lim.	0.09243	0.082	0.06	0.5167	0.6114	0.2378

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-62
8/30/2016	0.39	0.78				
12/6/2016	0.47	1.1				
3/28/2017		1.1				
3/29/2017	0.51					
7/11/2017	0.2 (J)	1.1				
10/24/2017	0.82	1.7				
2/27/2018	0.59	1.2				
7/11/2018		1.3				
11/6/2018	0.35	1.1				
1/30/2019						0.43
3/12/2019	0.35	0.97				
8/27/2019		0.68				
8/28/2019	0.098 (J)					
10/16/2019	0.14 (J)					
10/17/2019		1.2				
10/21/2019						0.23 (J)
3/3/2020	<0.1	1.4				
8/11/2020		1.3				
8/12/2020	0.056 (J)					
8/13/2020						0.11
9/22/2020		0.99				
9/23/2020	<0.1					
9/24/2020						0.093 (J)
12/9/2020				0.33	0.33	
12/17/2020			0.079 (J)			
1/11/2021			0.077 (J)			
1/12/2021				0.36	0.32	
3/2/2021	0.059 (J)	0.93				
3/4/2021			0.11	0.43		
3/5/2021					0.51	
3/12/2021						0.11
9/9/2021						0.14
9/10/2021		2	0.083 (J)			
9/13/2021	0.069 (J)					
9/14/2021				0.5	0.57	
Mean	0.2868	1.178	0.08725	0.405	0.4325	0.1855
Std. Dev.	0.2338	0.3265	0.01537	0.07594	0.1266	0.1295
Upper Lim.	0.4095	1.391	0.11	0.5774	0.7199	0.3546
Lower Lim.	0.1193	0.9657	0.077	0.2326	0.1451	0.06003

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-83	B-93
10/21/2019		0.13 (J)	
10/24/2019	0.096 (J)		
8/13/2020	<0.1		
8/14/2020		0.05 (J)	
8/19/2020			0.32
9/24/2020	<0.1		
9/25/2020		<0.1	
9/28/2020			0.3
3/4/2021	<0.1	0.071 (J)	
3/9/2021			0.34
9/14/2021	0.078 (J)		
9/15/2021			0.34
9/16/2021		0.066 (J)	
Mean	0.0948	0.0834	0.325
Std. Dev.	0.00955	0.0317	0.01915
Upper Lim.	0.1	0.1232	0.3685
Lower Lim.	0.078	0.02857	0.2815

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<0.001	<0.001			<0.001	
9/1/2016			<0.001			
9/6/2016				<0.001		<0.001
12/6/2016	<0.001	<0.001			<0.001	
12/7/2016			<0.001	<0.001		0.0002 (J)
3/29/2017	<0.001	<0.001	<0.001		<0.001	
3/30/2017				0.0002 (J)		0.0001 (J)
7/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
10/24/2017	<0.001	<0.001				
10/25/2017			<0.001		<0.001	<0.001
11/15/2017				<0.001		
2/27/2018	<0.001	<0.001	<0.001		<0.001	
2/28/2018				<0.001		<0.001
7/11/2018			<0.001		<0.001	<0.001
11/6/2018	<0.001	<0.001				
11/7/2018			<0.001	<0.001	<0.001	<0.001
8/27/2019	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019				<0.001		5.9E-05 (J)
9/17/2019			<0.001			
10/15/2019	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019				<0.001	<0.001	
10/17/2019						<0.001
3/2/2020		0.00015 (J)	<0.001			
3/3/2020	0.00011 (J)			<0.001	<0.001	<0.001
8/11/2020	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020				<0.001		
8/13/2020						0.0012 (J)
9/22/2020		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020				9.8E-05 (J)		8.2E-05 (J)
9/24/2020	0.00013 (J)					
3/2/2021		<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021			<0.001			
3/4/2021	9.2E-05 (J)					
9/9/2021		<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2021	<0.001					
Mean	0.0006273	0.0006785	0.0008881	0.0008784	0.0008149	0.0007161
Std. Dev.	0.0004481	0.0004481	0.0003057	0.0003097	0.0003834	0.0004487
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0012
Lower Lim.	0.00011	0.0001	0.00011	0.0002	9.6E-05	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
9/2/2016				<0.001	0.0002 (J)	
9/7/2016	<0.001					
12/7/2016		<0.001		<0.001		
12/8/2016	<0.001				<0.001	
3/29/2017		<0.001		<0.001		
3/30/2017	0.0001 (J)		0.0001 (J)		0.0004 (J)	<0.001
5/11/2017			9E-05 (J)			
5/12/2017						<0.001
6/15/2017			0.0001 (J)			<0.001
7/11/2017			<0.001			
7/12/2017	<0.001	<0.001		<0.001	0.0001 (J)	<0.001
10/24/2017			<0.001			
10/25/2017	<0.001	<0.001		<0.001	<0.001	
10/26/2017						<0.001
2/27/2018			<0.001			
2/28/2018	<0.001	<0.001		<0.001	<0.001	
3/1/2018						<0.001
7/11/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
7/12/2018						<0.001
11/6/2018			<0.001			
11/7/2018	<0.001	<0.001		<0.001	<0.001	
11/8/2018						<0.001
8/27/2019	9E-05 (J)		6E-05 (J)			
8/28/2019		0.00026 (J)				
8/29/2019				0.00015 (J)	0.00023 (J)	6.6E-05 (J)
10/16/2019		<0.001				
10/17/2019			8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)	
10/18/2019	7.4E-05 (J)					<0.001
3/3/2020		7E-05 (J)	<0.001		0.00015 (J)	
3/4/2020	0.00013 (J)			0.00068 (J)		<0.001
8/11/2020		5.3E-05 (J)	6.4E-05 (J)			
8/13/2020				0.00044 (J)		<0.001
8/14/2020	0.00017 (J)				<0.001	
9/22/2020		0.00016 (J)		0.00013 (J)		
9/23/2020			9.4E-05 (J)			
9/24/2020	7.9E-05 (J)				0.00014 (J)	<0.001
3/2/2021		4.5E-05 (J)	0.00014 (J)	0.00047 (J)		
3/3/2021	0.00015 (J)				<0.001	<0.001
9/9/2021		<0.001	<0.001		<0.001	<0.001
9/10/2021				<0.001		
9/13/2021	<0.001					
Mean	0.0005862	0.0007059	0.0005156	0.0007311	0.0006177	0.0009377
Std. Dev.	0.0004585	0.0004334	0.0004693	0.0003691	0.0004296	0.0002412
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	7E-05	8.6E-05	0.00015	0.00014	6.6E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					0.0002 (J)	
9/1/2016			0.0005 (J)	0.0008 (J)		
9/7/2016		0.0002 (J)				
12/6/2016					0.0004 (J)	<0.001
12/8/2016		0.0002 (J)	<0.001	0.0019 (J)		
3/28/2017	0.0002 (J)				<0.001	
3/29/2017						0.0001 (J)
3/30/2017				0.0035 (J)		
3/31/2017		0.0004 (J)	0.0009 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	<0.001
7/13/2017		0.0004 (J)	0.0007 (J)	0.002 (J)		
10/24/2017	<0.001					<0.001
10/25/2017		0.0002 (J)			0.0024 (J)	
10/26/2017			0.0009 (J)	0.0022 (J)		
2/27/2018	<0.001				<0.001	<0.001
2/28/2018		<0.001				
3/1/2018			<0.001			
3/2/2018				<0.001		
7/11/2018		0.00052 (J)				
7/12/2018			0.001 (J)	0.0014 (J)		
11/6/2018	<0.001				<0.001	<0.001
11/7/2018		<0.005 (J)	<0.005 (J)	<0.005 (J)		
8/27/2019	4.9E-05 (J)				5.1E-05 (J)	
8/28/2019		0.00036 (J)				8.2E-05 (J)
8/29/2019			0.0006 (J)	0.001 (J)		
10/15/2019	0.0001 (J)					
10/16/2019					8.5E-05 (J)	0.00029 (J)
10/17/2019		0.00026 (J)	0.0011 (J)			
10/18/2019				0.00095 (J)		
3/2/2020	<0.001				5.1E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		0.0001 (J)	0.00088 (J)	0.0012 (J)		
8/12/2020	<0.001		0.0004 (J)		6.3E-05 (J)	0.0007 (J)
8/13/2020		0.0016 (J)		0.00092 (J)		
9/22/2020	<0.001	0.00074 (J)			4.8E-05 (J)	
9/23/2020			0.00053 (J)	0.001 (J)		0.00011 (J)
3/1/2021	0.00012 (J)					
3/2/2021					8E-05 (J)	0.00027 (J)
3/3/2021		0.00024 (J)	0.0007 (J)	0.0011		
9/10/2021	<0.001		<0.001	0.00099 (J)	<0.001	
9/13/2021		<0.001				<0.001
Mean	0.0007478	0.0008147	0.001081	0.001664	0.0005984	0.0006273
Std. Dev.	0.0004149	0.001228	0.001106	0.001169	0.0006777	0.0004132
Upper Lim.	0.001	0.0004678	0.0011	0.0022	0.001	0.001
Lower Lim.	0.00012	0.0001549	0.00053	0.00095	5.1E-05	0.00011

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-102D	B-104D	B-111D	B-56
8/30/2016	<0.001					
12/6/2016	<0.001					
3/28/2017	<0.001					
7/11/2017	<0.001					
10/24/2017	<0.001					
2/27/2018	<0.001					
7/11/2018	<0.001					
11/6/2018	<0.001					
8/27/2019	<0.001					
10/17/2019	<0.001					
3/3/2020	0.00017 (J)					
8/11/2020	<0.001					
8/17/2020		8.8E-05 (J)				0.00022 (J)
9/22/2020	0.00015 (J)					
9/25/2020		0.00021 (J)				
9/28/2020						9.1E-05 (J)
12/9/2020				5.1E-05 (J)	5.8E-05 (J)	
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021				<0.001	5.1E-05 (J)	
3/2/2021	0.00028 (J)					
3/3/2021						0.0001 (J)
3/4/2021			5.9E-05 (J)	<0.001		
3/5/2021					<0.001	
3/8/2021		0.00018 (J)				
9/10/2021	<0.001		<0.001			
9/13/2021		<0.001				<0.001
9/14/2021				<0.001	<0.001	
Mean	0.00084	0.0003695	0.0002865	0.0007628	0.0005273	0.0003528
Std. Dev.	0.0003323	0.0004235	0.0004758	0.0004745	0.0005459	0.0004355
Upper Lim.	0.001	0.0003036	0.001	0.001	0.001	0.0002854
Lower Lim.	0.00028	5.528E-05	3.7E-05	5.1E-05	5.1E-05	3.627E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-82	B-88	B-93
1/28/2019	<0.001			
9/11/2019	4.7E-05 (J)			
9/23/2019		0.00016 (J)		
10/21/2019		<0.001		
10/22/2019	7.3E-05 (J)			
8/17/2020		5.9E-05 (J)	0.00081 (J)	
8/19/2020				0.00012 (J)
9/25/2020			0.00035 (J)	
9/28/2020		0.00011 (J)		0.00012 (J)
3/5/2021			0.012	
3/9/2021				<0.001
9/13/2021			<0.001	
9/14/2021	<0.001	<0.001		
9/15/2021				<0.001
Mean	0.00053	0.0004658	0.00354	0.00056
Std. Dev.	0.0005428	0.000489	0.005647	0.0005081
Upper Lim.	0.001	0.0001911	0.02767	0.001
Lower Lim.	4.7E-05	4.858E-05	4.865E-05	0.00012

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016			<0.03			
9/6/2016				0.0029 (J)		0.0064 (J)
12/6/2016	<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016			<0.03	0.003 (J)		0.0066 (J)
3/29/2017	0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017				0.0035 (J)		0.0061 (J)
7/12/2017	0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
10/24/2017	0.0022 (J)	0.0024 (J)				
10/25/2017			<0.03		0.0032 (J)	0.0061 (J)
11/15/2017				0.0028 (J)		
2/27/2018	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018				<0.03		0.0062 (J)
7/11/2018			<0.03		0.0034 (J)	0.0058 (J)
11/6/2018	<0.03	<0.03				
11/7/2018			<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019				0.0033 (J)		0.0063 (J)
9/17/2019			0.0011 (J)			
10/15/2019	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019				0.0029 (J)	0.0032 (J)	
10/17/2019						0.0064 (J)
3/2/2020		0.0023 (J)	<0.03			
3/3/2020	0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
8/11/2020	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020				0.0034 (J)		
8/13/2020						0.0089 (J)
9/22/2020		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020				0.0033 (J)		0.006 (J)
9/24/2020	0.0049 (J)					
3/2/2021		0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021			<0.03			
3/4/2021	0.0042 (J)					
9/9/2021		0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)
9/10/2021	0.0051 (J)					
Mean	0.005343	0.003186	0.01064	0.004879	0.00472	0.00625
Std. Dev.	0.004279	0.003418	0.006685	0.004297	0.003078	0.0008465
Upper Lim.	0.006793	0.0028	0.015	0.0036	0.0044	0.0066
Lower Lim.	0.002702	0.0019	0.0011	0.0029	0.0032	0.0058

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (J)				
9/2/2016				0.0021 (J)	0.0057 (J)	0.0046 (J)
9/7/2016	<0.03					
12/7/2016		0.0034 (J)		0.005 (J)		
12/8/2016	<0.03				0.0054 (J)	0.0047 (J)
3/29/2017		0.0031 (J)		0.0021 (J)		0.0043 (J)
3/30/2017	<0.03		0.0807		0.0065 (J)	
5/11/2017			0.085			
6/15/2017			0.0781			
7/11/2017			0.0731			
7/12/2017	<0.03	0.0032 (J)		0.0019 (J)	0.0057 (J)	
7/13/2017						0.0044 (J)
10/24/2017			0.0995			
10/25/2017	<0.03	0.0031 (J)		0.0022 (J)	0.006 (J)	0.0042 (J)
2/27/2018			0.0875			
2/28/2018	<0.03	0.0031 (J)		0.0019 (J)	0.0061 (J)	0.0043 (J)
7/11/2018	<0.03	0.0034 (J)	0.033 (J)	0.0022 (J)	0.0057 (J)	
7/12/2018						0.0036 (J)
11/6/2018			<0.03			
11/7/2018	<0.03	<0.03		<0.03	<0.03	<0.03
8/27/2019	0.00089 (J)		0.032			
8/28/2019		0.0032 (J)				
8/29/2019				0.0093 (J)	0.0061 (J)	0.0035 (J)
10/16/2019		0.0026 (J)				
10/17/2019			0.029 (J)	0.0075 (J)	0.0063 (J)	
10/18/2019	0.00096 (J)					0.0041 (J)
3/3/2020		0.0034 (J)	0.026 (J)		0.0065 (J)	0.0046 (J)
3/4/2020	0.0011 (J)			0.019 (J)		
8/11/2020		0.0031 (J)	0.028 (J)			
8/13/2020				0.012 (J)		
8/14/2020	0.0015 (J)				0.0058 (J)	0.0039 (J)
9/22/2020		0.0034 (J)		0.0026 (J)		
9/23/2020			0.022 (J)			
9/24/2020	0.00096 (J)				0.0062 (J)	0.0037 (J)
3/2/2021		0.003 (J)	0.023 (J)	0.011 (J)		
3/3/2021	0.0011 (J)				0.0054 (J)	0.0038 (J)
9/9/2021		0.0035 (J)	0.024 (J)		0.006 (J)	
9/10/2021				0.0023 (J)		0.0039 (J)
9/13/2021	<0.03					
Mean	0.009434	0.003993	0.04906	0.006407	0.00656	0.00484
Std. Dev.	0.007057	0.003053	0.03031	0.005611	0.00236	0.002836
Upper Lim.	0.015	0.0035	0.085	0.012	0.0065	0.0046
Lower Lim.	0.00096	0.003	0.023	0.0021	0.0057	0.0037

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (J)
9/1/2016				0.0854	0.125	
9/7/2016			0.012 (J)			
12/6/2016						0.0046 (J)
12/8/2016			0.0118 (J)	0.0667	0.122	
3/28/2017		0.0031 (J)				0.0028 (J)
3/30/2017	0.0162 (J)				0.144	
3/31/2017			0.0119 (J)	0.0767		
5/12/2017	0.0036 (J)	0.0027 (J)				
6/15/2017	0.0063 (J)	0.0025 (J)				
7/11/2017		0.0022 (J)				0.0031 (J)
7/12/2017	0.0068 (J)					
7/13/2017			0.0116 (J)	0.0743	0.143	
10/24/2017		0.0024 (J)				
10/25/2017			0.0122 (J)			0.0055 (J)
10/26/2017	0.0049 (J)			0.071	0.115	
2/27/2018		0.0027 (J)				0.0066 (J)
2/28/2018			0.0122 (J)			
3/1/2018	0.0759			0.0772		
3/2/2018					0.129	
7/11/2018			0.01 (J)			
7/12/2018	0.0047 (J)			0.073	0.12	
11/6/2018		<0.03				<0.03
11/7/2018			<0.03	0.082	0.12	
11/8/2018	<0.03					
8/27/2019		0.0033 (J)				0.008 (J)
8/28/2019			0.01 (J)			
8/29/2019	0.0017 (J)			0.056	0.11	
10/15/2019		0.0029 (J)				
10/16/2019						0.006 (J)
10/17/2019			0.011 (J)	0.066		
10/18/2019	0.0039 (J)				0.11	
3/2/2020		0.0035 (J)				0.0079 (J)
3/4/2020	0.004 (J)		0.0091 (J)	0.063	0.12	
8/12/2020		0.0031 (J)		0.054		0.0067 (J)
8/13/2020	0.0052 (J)		0.011 (J)		0.098	
9/22/2020		0.0026 (J)	0.0099 (J)			0.0065 (J)
9/23/2020				0.046	0.1	
9/24/2020	0.0045 (J)					
3/1/2021		0.0035 (J)				
3/2/2021						0.0064 (J)
3/3/2021	0.014 (J)		0.0079 (J)	0.049	0.096	
9/9/2021	0.0081 (J)					
9/10/2021		0.0035 (J)		0.053	0.095	0.0071 (J)
9/13/2021			0.015 (J)			
Mean	0.01165	0.003786	0.01137	0.06622	0.1165	0.006343
Std. Dev.	0.01832	0.003256	0.001928	0.01232	0.01544	0.003062
Upper Lim.	0.01279	0.0035	0.01268	0.07457	0.1269	0.008199
Lower Lim.	0.003816	0.0025	0.01007	0.05787	0.106	0.004206

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-102D	B-104D	B-56
8/30/2016	0.005 (J)	0.0212 (J)				
12/6/2016	0.0066 (J)	0.0242 (J)				
3/28/2017		0.0249 (J)				
3/29/2017	0.0059 (J)					
7/11/2017	0.0045 (J)	0.022 (J)				
10/24/2017	0.0072 (J)	0.0281 (J)				
2/27/2018	0.0075 (J)	0.031 (J)				
7/11/2018		0.028 (J)				
11/6/2018	<0.03	<0.03				
8/27/2019		0.031				
8/28/2019	0.0048 (J)					
10/16/2019	0.0045 (J)					
10/17/2019		0.029 (J)				
3/3/2020	0.0052 (J)	0.028 (J)				
8/11/2020		0.032				
8/12/2020	0.0058 (J)					
8/17/2020			0.0013 (J)			0.0056 (J)
9/22/2020		0.025 (J)				
9/23/2020	0.0045 (J)					
9/25/2020			0.0027 (J)			
9/28/2020						0.005 (J)
12/9/2020					0.039 (J)	
12/17/2020				0.012 (J)		
1/11/2021				0.015 (J)		
1/12/2021					0.039	
3/2/2021	0.0046 (J)	0.028 (J)				
3/3/2021						0.0051 (J)
3/4/2021				0.014 (J)	0.038	
3/8/2021			0.0024 (J)			
9/10/2021		0.027 (J)		0.012 (J)		
9/13/2021	0.0034 (J)		0.0022 (J)			0.0055 (J)
9/14/2021					0.036	
Mean	0.006036	0.02629	0.00215	0.01325	0.038	0.0053
Std. Dev.	0.002823	0.004445	0.0006028	0.0015	0.001414	0.0002944
Upper Lim.	0.0072	0.02931	0.003519	0.01666	0.04121	0.005968
Lower Lim.	0.0045	0.02328	0.0007815	0.009844	0.03479	0.004632

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-83	B-93
1/28/2019		<0.03		
1/30/2019	<0.03			
9/11/2019	0.0078 (J)	0.0064 (J)		
10/21/2019	0.0078 (J)		0.003 (J)	
10/22/2019		0.0062 (J)		
8/13/2020	0.0087 (J)			
8/14/2020			0.0045 (J)	
8/19/2020				0.011 (J)
9/24/2020	0.0084 (J)			
9/25/2020			0.0018 (J)	
9/28/2020				0.011 (J)
3/4/2021			0.0024 (J)	
3/9/2021				0.012 (J)
3/12/2021	0.0087 (J)	0.0066 (J)		
9/9/2021	0.0094 (J)			
9/14/2021		0.0064 (J)		
9/15/2021				0.011 (J)
9/16/2021			0.0021 (J)	
Mean	0.0094	0.00812	0.00276	0.01125
Std. Dev.	0.002532	0.003849	0.001069	0.0005
Upper Lim.	0.015	0.015	0.004551	0.012
Lower Lim.	0.0078	0.0062	0.0009685	0.011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
Mean	0.0001658	0.0001707	0.0001541	0.0001829	0.0001727	0.0001907
Std. Dev.	5.628E-05	5.85E-05	6.456E-05	4.375E-05	5.688E-05	3.615E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8.1E-05	8E-05	8E-05	9E-05	8E-05	6E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
Mean	0.0001404	0.000172	0.0002049	0.0001767	0.000158	0.0001677
Std. Dev.	6.361E-05	5.882E-05	0.0001304	4.835E-05	6.327E-05	5.729E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	6E-05	9E-05	8.3E-05	9E-05	6E-05	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
Mean	0.0001853	0.0002059	0.0001893	0.0001907	0.0001924	0.0001494
Std. Dev.	5.73E-05	0.0001192	4.131E-05	3.615E-05	0.0001175	6.312E-05
Upper Lim.	0.0002053	0.00059	0.0002	0.0002	0.0002402	0.0002
Lower Lim.	0.0001241	0.00013	4E-05	6E-05	0.0001202	7.9E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-104D	B-111D	B-56	B-82	B-88
8/30/2016	<0.0002					
12/6/2016	5E-05 (J)					
3/28/2017	<0.0002					
7/11/2017	<0.0002					
10/24/2017	<0.0002					
2/27/2018	4.2E-05 (J)					
7/11/2018	<0.0002					
11/6/2018	<0.0002					
8/27/2019	0.00021 (J)					
9/23/2019					<0.0002	
10/17/2019	0.00042 (J)					
10/21/2019					<0.0002	
3/3/2020	<0.0002					
8/11/2020	0.00026					
8/17/2020				0.00016 (J)	0.00011 (J)	0.00011 (J)
9/22/2020	0.00013 (J)					
9/25/2020						<0.0002
9/28/2020				<0.0002	<0.0002	
12/9/2020		7.9E-05 (J)	9.4E-05 (J)			
1/12/2021		<0.0002	<0.0002			
3/2/2021	0.00017 (J)					
3/3/2021				<0.0002		
3/4/2021		<0.0002				
3/5/2021			<0.0002			0.0001 (J)
9/10/2021	0.00014 (J)					
9/13/2021				<0.0002		<0.0002
9/14/2021		<0.0002	<0.0002		<0.0002	
Mean	0.0001881	0.0001697	0.0001735	0.00019	0.000182	0.0001525
Std. Dev.	8.736E-05	6.05E-05	5.3E-05	2E-05	4.025E-05	5.5E-05
Upper Lim.	0.00021	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	7.9E-05	9.4E-05	0.00016	0.00011	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.00026
9/28/2020	0.00024 (J)
3/9/2021	0.00015 (J)
9/15/2021	9.8E-05 (J)
Mean	0.000187
Std. Dev.	7.622E-05
Upper Lim.	0.00036
Lower Lim.	1.396E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-104D	B-111D
9/6/2016	0.0371					
12/7/2016	0.0273					
3/28/2017				0.008 (J)		
3/30/2017	0.03	0.0009 (J)	0.0084 (J)			
5/11/2017		0.0009 (J)				
5/12/2017			0.0085 (J)	0.0062 (J)		
6/15/2017		<0.01	0.0104	0.0044 (J)		
7/11/2017		<0.01		0.0041 (J)		
7/12/2017	0.0323		0.0092 (J)			
10/24/2017		<0.01		0.0072 (J)		
10/26/2017			0.0077 (J)			
11/15/2017	0.0275					
2/27/2018		<0.01		0.0069 (J)		
2/28/2018	0.0093 (J)					
3/1/2018			0.0045 (J)			
7/11/2018		<0.01				
7/12/2018			0.012			
11/6/2018		<0.01		<0.01 (J)		
11/7/2018	0.018					
11/8/2018			0.012			
8/27/2019		0.002 (J)		0.0065 (J)		
8/28/2019	0.015					
8/29/2019			0.014			
10/15/2019				0.0061 (J)		
10/16/2019	0.014					
10/17/2019		0.0018 (J)				
10/18/2019			0.0091 (J)			
3/2/2020				0.0059 (J)		
3/3/2020	0.018	0.0022 (J)				
3/4/2020			0.0047 (J)			
8/11/2020		0.002 (J)				
8/12/2020	0.012			0.0057 (J)		
8/13/2020			0.013			
9/22/2020				0.0028 (J)		
9/23/2020	0.012	0.0022 (J)				
9/24/2020			0.0088 (J)			
12/9/2020				0.0012 (J)	0.0055 (J)	
1/12/2021				<0.01	0.0054 (J)	
3/1/2021				0.0051 (J)		
3/2/2021	0.011	0.0021 (J)				
3/3/2021			0.0026 (J)			
3/4/2021				<0.01		
3/5/2021					0.0067 (J)	
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		
9/14/2021				<0.01	0.013	
Mean	0.01961	0.005093	0.008993	0.006007	0.0078	0.00765
Std. Dev.	0.009301	0.004167	0.003208	0.001765	0.0044	0.003615
Upper Lim.	0.0262	0.01	0.01117	0.007258	0.01	0.01817
Lower Lim.	0.01302	0.0018	0.00682	0.004757	0.0012	0.002799

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-66	B-88
1/30/2019	<0.01	
9/12/2019	0.0018 (J)	
10/21/2019	0.0015 (J)	
8/17/2020		0.0012 (J)
9/25/2020		0.0012 (J)
3/5/2021		<0.01
9/13/2021		<0.01
9/14/2021	<0.01	
Mean	0.005825	0.0056
Std. Dev.	0.004822	0.005081
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0012

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016	0.0366			0.0016 (J)		
9/1/2016		0.0017 (J)				
9/6/2016			0.0011 (J)		<0.005	
9/7/2016						0.007 (J)
12/6/2016	0.0026 (J)			<0.005		
12/7/2016		<0.005	0.0015 (J)		<0.005	
12/8/2016						0.0087 (J)
3/29/2017	0.0286	0.0017 (J)		<0.005		
3/30/2017			0.0015 (J)		<0.005	0.0099 (J)
7/12/2017	0.0257	0.0019 (J)	<0.005	<0.005	<0.005	0.0072 (J)
10/24/2017	0.0281					
10/25/2017		0.0024 (J)		<0.005	<0.005	0.0078 (J)
11/15/2017			0.0019 (J)			
2/27/2018	0.0667	<0.005		<0.005		
2/28/2018			<0.005		<0.005	<0.005
7/11/2018		<0.005		0.002 (J)	<0.005	0.007 (J)
11/6/2018	0.049					
11/7/2018		<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.005
8/27/2019	0.015	<0.005		<0.005		0.0073 (J)
8/28/2019			0.0039 (J)		<0.005	
9/17/2019		0.0014 (J)				
10/15/2019	0.071	0.0019 (J)				
10/16/2019			0.0031 (J)	0.0017 (J)		
10/17/2019					<0.005	
10/18/2019						0.0093 (J)
3/2/2020		<0.005				
3/3/2020	0.021		0.0062 (J)	0.0014 (J)	<0.005	
3/4/2020						0.0074 (J)
8/11/2020	0.023	0.0019 (J)		<0.005		
8/12/2020			0.0038 (J)			
8/13/2020					0.0018 (J)	
8/14/2020						0.0084 (J)
9/22/2020		<0.005		<0.005		
9/23/2020			0.0053 (J)		<0.005	
9/24/2020	0.074					0.015
3/2/2021			0.006	<0.005	<0.005	
3/3/2021		<0.005				0.0072
3/4/2021	0.05					
9/9/2021		<0.005	0.006	0.0017 (J)	<0.005	
9/10/2021	0.034					
9/13/2021						0.0071
Mean	0.03752	0.003931	0.004307	0.004227	0.00512	0.007953
Std. Dev.	0.0217	0.002266	0.00244	0.002257	0.001582	0.002359
Upper Lim.	0.05289	0.005	0.004442	0.01	0.01	0.009189
Lower Lim.	0.02215	0.0017	0.0019	0.0017	0.0018	0.006423

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
9/1/2016	0.0093 (J)					0.0217
9/2/2016			0.0671	<0.005		
12/7/2016	<0.005		0.0056 (J)			
12/8/2016				<0.005		0.017
3/28/2017					<0.005	
3/29/2017	0.0071 (J)		0.0521	<0.005		
3/30/2017		<0.005				
3/31/2017						0.0133
5/11/2017		<0.005				
5/12/2017					<0.005	
6/15/2017		<0.005			<0.005	
7/11/2017		<0.005			<0.005	
7/12/2017	0.0065 (J)		0.0483			
7/13/2017				<0.005		0.0068 (J)
10/24/2017		<0.005			<0.005	
10/25/2017	0.0087 (J)		0.0506	<0.005		
10/26/2017						0.0097 (J)
2/27/2018		<0.005			<0.005	
2/28/2018	0.0114		0.0755	<0.005		
3/1/2018						0.0124
7/11/2018	0.0036 (J)	0.0045 (J)	0.022			
7/12/2018				0.0017 (J)		0.015
11/6/2018		<0.01 (J)			<0.005	
11/7/2018	<0.01 (J)		0.044	<0.005		<0.01 (J)
8/27/2019		0.0069 (J)			<0.005	
8/28/2019	0.004 (J)					
8/29/2019			0.029	<0.005		0.004 (J)
10/15/2019					0.0014 (J)	
10/16/2019	0.006 (J)					
10/17/2019		0.0051 (J)	0.071			0.0062 (J)
10/18/2019				<0.005		
3/2/2020					<0.005	
3/3/2020	0.0066 (J)	0.0047 (J)		<0.005		
3/4/2020			0.071			0.0065 (J)
8/11/2020	0.0096 (J)	0.0053 (J)				
8/12/2020					<0.005	0.002 (J)
8/13/2020			0.091			
8/14/2020				<0.005		
9/22/2020	0.0052 (J)		0.023		<0.005	
9/23/2020		0.0046 (J)				<0.005
9/24/2020				<0.005		
3/1/2021					<0.005	
3/2/2021	0.0091	0.0037 (J)	0.078			
3/3/2021				<0.005		0.0039 (J)
9/9/2021	0.0083	0.0031 (J)				
9/10/2021			0.031	<0.005	<0.005	0.0035 (J)
Mean	0.00736	0.005193	0.05061	0.00478	0.004743	0.009133
Std. Dev.	0.00234	0.001557	0.02481	0.0008521	0.0009621	0.005718
Upper Lim.	0.008946	0.0053	0.06742	0.005	0.005	0.01301
Lower Lim.	0.005774	0.0045	0.0338	0.0017	0.0014	0.005259

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-104D
8/30/2016			0.0032 (J)	0.0833		
8/31/2016		0.0182				
9/1/2016	0.0084 (J)					
12/6/2016		0.012	<0.005	0.0065 (J)		
12/8/2016	0.0084 (J)					
3/28/2017		0.168		0.0954		
3/29/2017			0.0048 (J)			
3/30/2017	0.0079 (J)					
7/11/2017		0.0607	0.0031 (J)	0.0561		
7/13/2017	0.0062 (J)					
10/24/2017			0.0069 (J)	0.0653		
10/25/2017		0.034				
10/26/2017	0.0058 (J)					
2/27/2018		0.0348	<0.005	0.13		
3/2/2018	<0.005					
7/11/2018				0.045		
7/12/2018	0.013					
11/6/2018		<0.01 (J)	<0.01 (J)	0.12		
11/7/2018	<0.01 (J)					
8/27/2019		0.0031 (J)		0.067		
8/28/2019			<0.005			
8/29/2019	0.0023 (J)					
10/16/2019		0.015	0.0016 (J)			
10/17/2019				0.19		
10/18/2019	0.005 (J)					
3/2/2020		0.032				
3/3/2020			0.0018 (J)	0.046		
3/4/2020	0.0061 (J)					
8/11/2020				0.11		
8/12/2020		0.011	<0.005			
8/13/2020	0.0029 (J)					
8/17/2020					<0.005	
9/22/2020		0.04		0.23		
9/23/2020	0.0016 (J)		0.0028 (J)			
9/25/2020					<0.005	
12/9/2020						<0.005
1/12/2021						0.0016 (J)
3/2/2021		0.0081	<0.005	0.07		
3/3/2021	0.0025 (J)					
3/4/2021						0.0031 (J)
3/8/2021					0.0019 (J)	
9/10/2021	0.0022 (J)	0.0099		0.057		
9/13/2021			<0.005		<0.005	
9/14/2021						<0.005
Mean	0.00582	0.03263	0.004586	0.09144	0.004225	0.003675
Std. Dev.	0.003285	0.04214	0.002144	0.0581	0.00155	0.001648
Upper Lim.	0.008046	0.0457	0.00408	0.1308	0.005	0.004053
Lower Lim.	0.003594	0.00964	0.002153	0.05207	0.0019	0.0006472

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-77	B-82	B-83	B-88
9/18/2019			<0.005			
9/23/2019				<0.005		
10/21/2019				0.0016 (J)	0.0082 (J)	
10/24/2019			<0.005			
8/13/2020			<0.005			
8/14/2020					0.015	
8/17/2020		0.011		<0.005		0.0017 (J)
9/24/2020			<0.005			
9/25/2020					0.019	0.0033 (J)
9/28/2020		0.029		0.0021 (J)		
12/9/2020	<0.005					
1/12/2021	<0.005					
3/3/2021		0.013				
3/4/2021			0.0017 (J)		0.024	
3/5/2021	0.0022 (J)					0.0033 (J)
9/13/2021		0.011				0.0021 (J)
9/14/2021	<0.005		<0.005	<0.005		
9/16/2021					0.025	
Mean	0.0043	0.016	0.00445	0.00374	0.01824	0.0026
Std. Dev.	0.0014	0.008718	0.001347	0.001734	0.006906	0.0008246
Upper Lim.	0.005	0.029	0.005	0.005	0.02981	0.004472
Lower Lim.	0.0022	0.011	0.0017	0.0016	0.006668	0.0007278

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22
8/31/2016	0.0004 (J)					
9/1/2016		<0.001		0.0005 (J)		
9/2/2016					<0.001	<0.001
9/7/2016			<0.001			
12/6/2016	0.0004 (J)					
12/7/2016		<0.001		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.001			<0.001
3/29/2017	0.0006 (J)	8E-05 (J)		0.0004 (J)	0.0006 (J)	6E-05 (J)
3/30/2017			0.0002 (J)			
7/12/2017	0.0005 (J)	9E-05 (J)	0.0002 (J)	0.0005 (J)	0.0006 (J)	
7/13/2017						7E-05 (J)
10/24/2017	0.0004 (J)					
10/25/2017		9E-05 (J)	0.0002 (J)	0.0004 (J)	0.0005 (J)	7E-05 (J)
2/27/2018	<0.001	<0.001				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.001	<0.001
7/11/2018		<0.001	0.00017 (J)	0.0005 (J)	<0.001	
7/12/2018						<0.001
11/6/2018	<0.001 (J)					
11/7/2018		<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001
8/27/2019	0.00036 (J)	8.9E-05 (J)	0.00018 (J)			
8/28/2019				0.00053 (J)		
8/29/2019					0.00084 (J)	6.4E-05 (J)
9/17/2019		9.7E-05 (J)				
10/15/2019	0.00039 (J)	9.1E-05 (J)				
10/16/2019				0.00053 (J)		
10/17/2019					0.00062 (J)	
10/18/2019			0.00014 (J)			<0.001
3/2/2020		0.00013 (J)				
3/3/2020	0.00042 (J)			0.0006 (J)		7E-05 (J)
3/4/2020			0.00019 (J)		0.0023 (J)	
8/11/2020	0.00037 (J)	<0.001		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.001
9/22/2020		<0.001		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.001
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.001	0.00017 (J)			<0.001
3/4/2021	0.00042 (J)					
9/9/2021		<0.001		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.001
9/13/2021			<0.001			
Mean	0.0004907	0.0006042	0.000398	0.000544	0.000942	0.0006889
Std. Dev.	0.0002285	0.0004636	0.0003761	0.0001384	0.0004995	0.0004554
Upper Lim.	0.0006	0.001	0.001	0.00059	0.000988	0.001
Lower Lim.	0.00036	9E-05	0.00017	0.00049	0.0005219	6.4E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

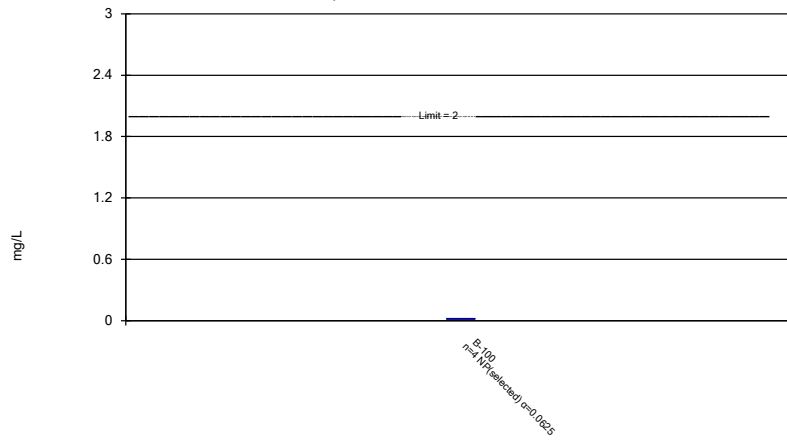
	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					<0.001	
9/1/2016			0.0002 (J)	<0.001		
9/7/2016		<0.001				
12/6/2016					<0.001	<0.001
12/8/2016		<0.001	<0.001	<0.001		
3/28/2017	<0.001				0.0002 (J)	
3/29/2017						0.0002 (J)
3/30/2017				9E-05 (J)		
3/31/2017		9E-05 (J)	0.0002 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.001					0.0003 (J)
10/25/2017		9E-05 (J)			<0.001	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.001				<0.001	0.00033 (J)
2/28/2018		<0.001				
3/1/2018			0.00032 (J)			
3/2/2018				<0.001		
7/11/2018		<0.001				
7/12/2018			0.00031 (J)	<0.001		
11/6/2018	<0.001				<0.001	<0.001 (J)
11/7/2018		<0.001	<0.001 (J)	<0.001		
8/27/2019	<0.001				<0.001	
8/28/2019		6.9E-05 (J)				0.00022 (J)
8/29/2019			0.00025 (J)	7.8E-05 (J)		
10/15/2019	7.3E-05 (J)					
10/16/2019					7.8E-05 (J)	0.00025 (J)
10/17/2019		<0.001	0.00025 (J)			
10/18/2019				<0.001		
3/2/2020	<0.001				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.001	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020		<0.001		<0.001		
9/22/2020	<0.001	<0.001			<0.001	
9/23/2020			0.00026 (J)	<0.001		0.0002 (J)
3/1/2021	<0.001					
3/2/2021					<0.001	0.00019 (J)
3/3/2021		<0.001	0.00023 (J)	<0.001		
9/10/2021	<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021		<0.001				0.00019 (J)
Mean	0.0009338	0.0007559	0.0003513	0.0006937	0.00081	0.0003886
Std. Dev.	0.0002478	0.000419	0.0002684	0.0004484	0.0003787	0.0003356
Upper Lim.	0.001	0.001	0.00036	0.001	0.001	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-56	B-82	B-83	B-88
8/30/2016	<0.001				
12/6/2016	0.0006 (J)				
3/28/2017	0.0007 (J)				
7/11/2017	0.0007 (J)				
10/24/2017	0.0006 (J)				
2/27/2018	0.00038 (J)				
7/11/2018	<0.001				
11/6/2018	<0.001				
8/27/2019	0.00053 (J)				
9/23/2019			9.9E-05 (J)		
10/17/2019	0.00076 (J)				
10/21/2019			0.00011 (J)	7.2E-05 (J)	
3/3/2020	0.00044 (J)				
8/11/2020	<0.001				
8/14/2020				<0.001	
8/17/2020		0.00016 (J)	<0.001		<0.001
9/22/2020	0.00043 (J)				
9/25/2020				<0.001	<0.001
9/28/2020		0.00023 (J)	<0.001		
3/2/2021	<0.001				
3/3/2021		0.00026 (J)			
3/4/2021				<0.001	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.001
9/14/2021			<0.001		
9/16/2021				<0.001	
Mean	0.0007027	0.0002225	0.0006418	0.0008144	0.0008
Std. Dev.	0.0002443	4.349E-05	0.0004905	0.000415	0.0004
Upper Lim.	0.001	0.0003212	0.001	0.001	0.001
Lower Lim.	0.00043	0.0001238	9.9E-05	7.2E-05	0.0002

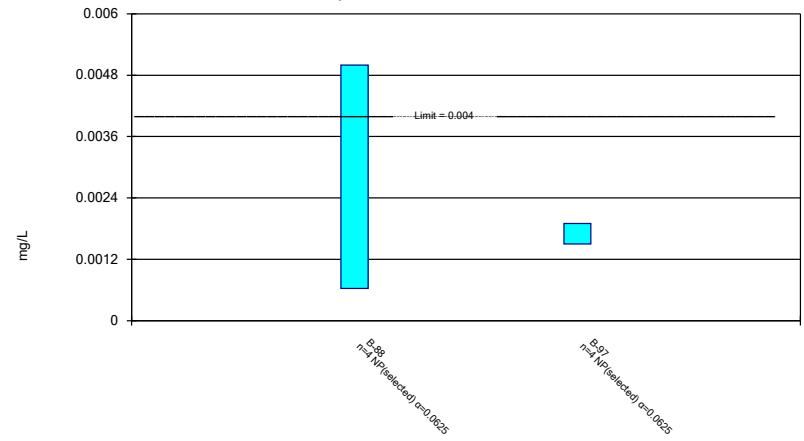
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Barium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

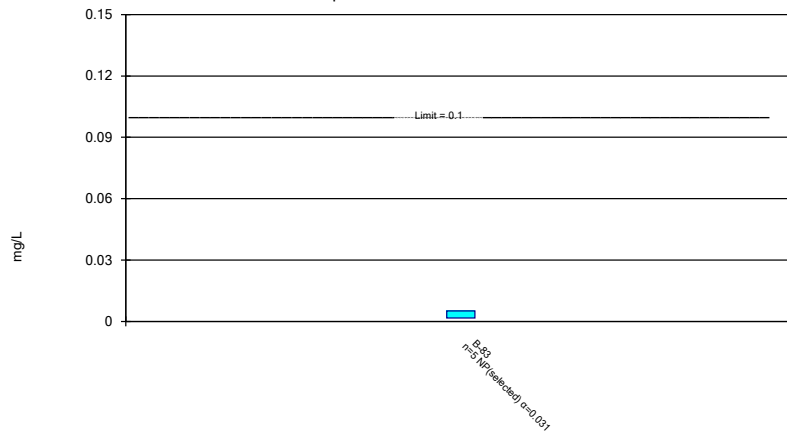
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Beryllium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametri
Plant McDonough Client: Southern Company Data: McDonough AP

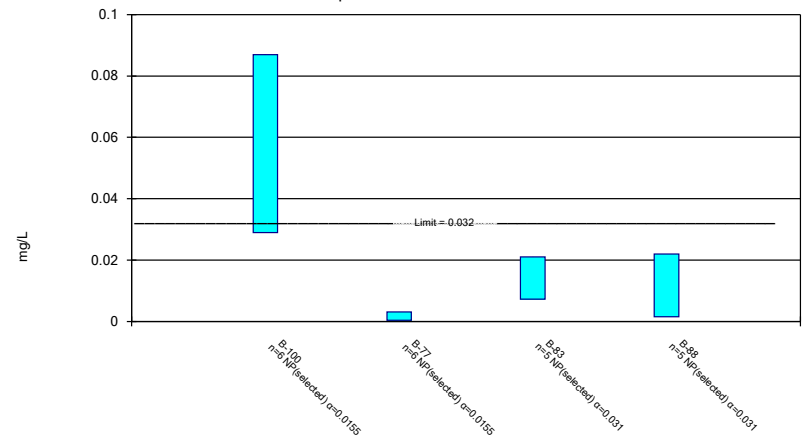
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Chromium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametr
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.

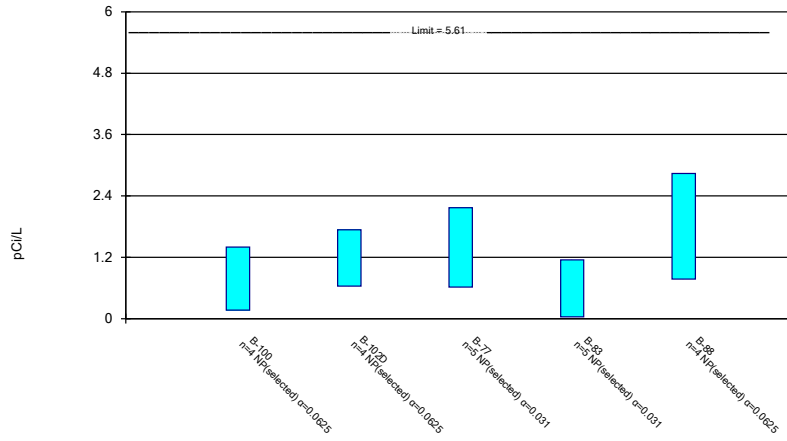


Normality testing disabled.

Constituent: Cobalt Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

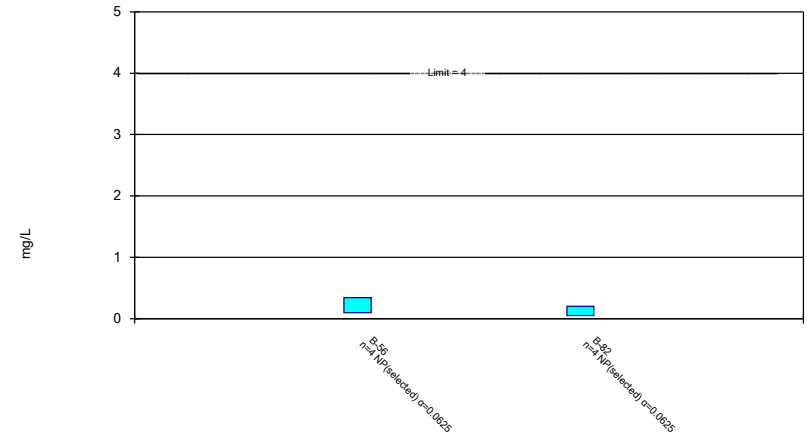


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

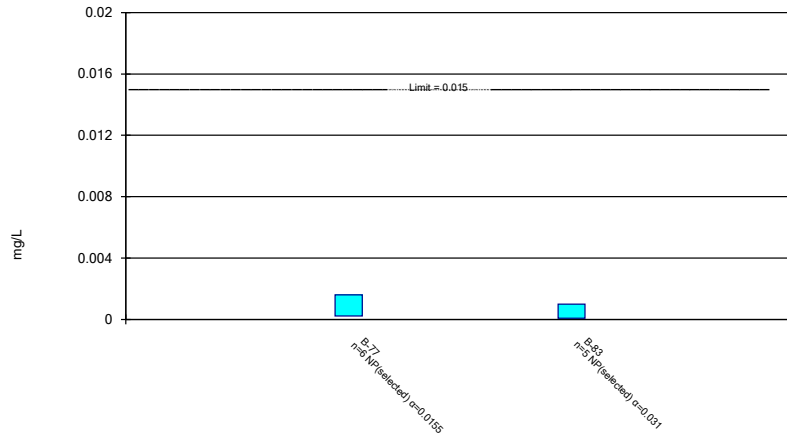


Normality testing disabled.

Constituent: Fluoride, total Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonpara
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

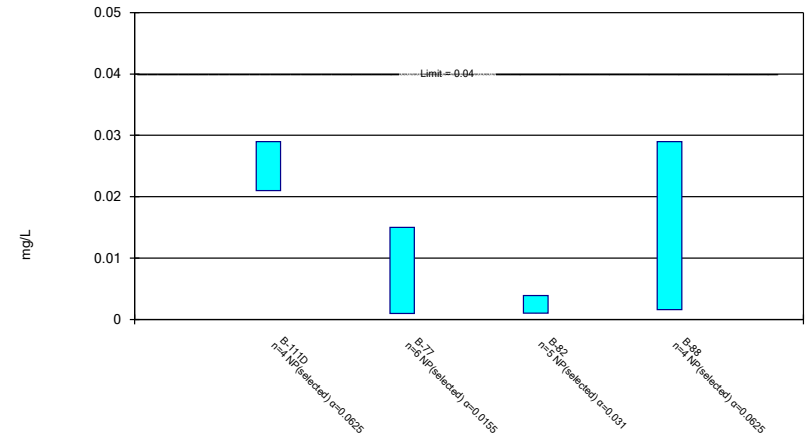


Normality testing disabled.

Constituent: Lead Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

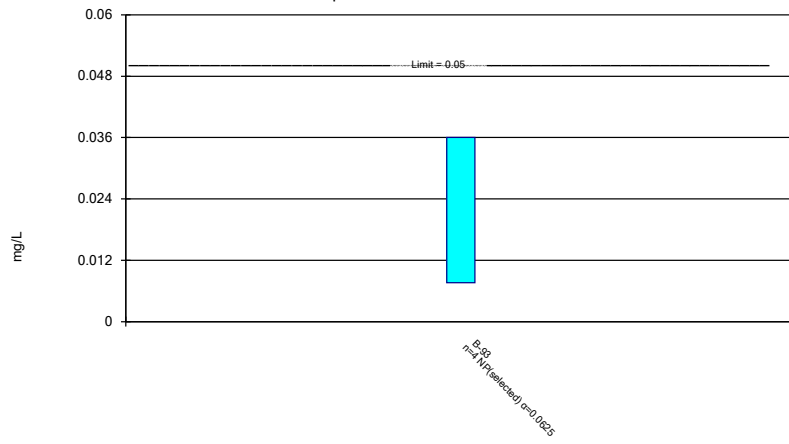


Normality testing disabled.

Constituent: Lithium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Selenium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametri
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-100
8/17/2020	0.015
9/25/2020	0.022
3/8/2021	0.022
9/13/2021	0.021
Mean	0.02
Std. Dev.	0.003367
Upper Lim.	0.022
Lower Lim.	0.015

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-97
2/17/2020		<0.003
2/27/2020		0.0019 (J)
8/17/2020	0.0014 (J)	
9/25/2020	0.00063 (J)	
3/5/2021	0.005	
3/9/2021		0.0019
9/13/2021	0.001	
9/15/2021		0.0016
Mean	0.002008	0.001725
Std. Dev.	0.00202	0.0002062
Upper Lim.	0.005	0.0019
Lower Lim.	0.00063	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83
10/21/2019	0.0017 (J)
8/14/2020	0.005 (J)
9/25/2020	0.0051 (J)
3/4/2021	0.0049 (J)
9/16/2021	0.003 (J)
Mean	0.00394
Std. Dev.	0.001524
Upper Lim.	0.0051
Lower Lim.	0.0017

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-77	B-83	B-88
9/18/2019		0.0031 (J)		
10/21/2019			0.018	
10/24/2019		0.0021 (J)		
11/22/2019				0.018 (J)
7/23/2020	0.086			
8/3/2020	0.087			
8/13/2020		0.0011 (J)		
8/14/2020			0.021	
8/17/2020	0.077			0.0031 (J)
9/24/2020		0.0004 (J)		
9/25/2020	0.034		0.0073	0.0015 (J)
3/4/2021		0.0017 (J)	0.0099	
3/5/2021				0.022
3/8/2021	0.029			
9/13/2021	0.035			0.0018 (J)
9/14/2021		<0.005		
9/16/2021			0.011	
Mean	0.058	0.001817	0.01344	0.00928
Std. Dev.	0.02804	0.0009725	0.005791	0.009906
Upper Lim.	0.087	0.0031	0.021	0.022
Lower Lim.	0.029	0.0004	0.0073	0.0015

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-77	B-83	B-88
10/21/2019				0.792 (U)	
10/24/2019			1.87		
8/13/2020			2.17		
8/14/2020				0.95 (U)	
8/17/2020	1.4 (U)				2.47
9/24/2020			0.761 (U)		
9/25/2020	0.799 (U)			0.0359 (U)	0.925 (U)
12/17/2020		1.22 (U)			
1/11/2021		0.635 (U)			
3/4/2021		0.789 (U)	2.16	1.15 (U)	
3/5/2021					2.84
3/8/2021	0.168 (U)				
9/10/2021		1.74			
9/13/2021	0.774 (U)				0.771 (U)
9/14/2021			0.617 (U)		
9/16/2021				0.442 (U)	
Mean	0.7853	1.096	1.516	0.674	1.752
Std. Dev.	0.5031	0.4956	0.7658	0.4409	1.056
Upper Lim.	1.4	1.74	2.17	1.15	2.84
Lower Lim.	0.168	0.635	0.617	0.0359	0.771

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-82
10/21/2019		0.2 (J)
8/17/2020	0.19	<0.1
9/28/2020	0.098 (J)	<0.1
3/3/2021	0.34	
9/13/2021	0.2	
9/14/2021		0.052 (J)
Mean	0.207	0.113
Std. Dev.	0.09985	0.06226
Upper Lim.	0.34	0.2
Lower Lim.	0.098	0.052

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-83
9/18/2019	0.00032 (J)	
10/21/2019		0.00012 (J)
10/24/2019	<0.001	
8/13/2020	0.0016 (J)	
8/14/2020		0.00092 (J)
9/24/2020	0.00021 (J)	
9/25/2020		6.5E-05 (J)
3/4/2021	0.00029 (J)	0.00017 (J)
9/14/2021	<0.001	
9/16/2021		<0.001
Mean	0.0007367	0.000455
Std. Dev.	0.000554	0.0004634
Upper Lim.	0.0016	0.001
Lower Lim.	0.00021	6.5E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-77	B-82	B-88
9/18/2019		0.0047 (J)		
9/23/2019			0.0039 (J)	
10/21/2019			0.0036 (J)	
10/24/2019		0.0036 (J)		
8/13/2020		0.0018 (J)		
8/17/2020			0.0016 (J)	0.006 (J)
9/24/2020		0.00095 (J)		
9/25/2020				0.0016 (J)
9/28/2020			0.001 (J)	
12/9/2020	0.021 (J)			
1/12/2021	0.021 (J)			
3/4/2021		0.0011 (J)		
3/5/2021	0.028 (J)			0.029 (J)
9/13/2021				0.0017 (J)
9/14/2021	0.029 (J)	<0.03	0.001 (J)	
Mean	0.02475	0.004525	0.00222	0.009575
Std. Dev.	0.004349	0.005339	0.001422	0.01311
Upper Lim.	0.029	0.015	0.0039	0.029
Lower Lim.	0.021	0.00095	0.001	0.0016

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.018
9/28/2020	0.036
3/9/2021	0.0099 (J)
9/15/2021	0.0076
Mean	0.01788
Std. Dev.	0.01288
Upper Lim.	0.036
Lower Lim.	0.0076

FIGURE J.

State Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.03	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.03	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.03	Yes	4	0.038	0.001414	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No	14	0.002443	0.00107	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No	4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No	4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No	4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No	5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No	5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No	4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No	4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No	14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No	16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No	15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No	15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No	15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No	15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No	15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No	14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No	15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No	15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No	15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No	14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No	14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No	15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No	4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No	4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No	6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No	4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No	15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No	15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.001	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.001	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.001	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.001	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.001	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.001	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.001	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.001	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.001	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.001	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.001	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.001	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.001	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.001	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.001	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.001	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.001	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.001	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.001	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.001	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.001	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.001	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.001	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.001	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.001	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.001	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.001	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.001	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.001	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.001	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.03	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.03	No	4	0.01325	0.0015	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.03	Yes	4	0.038	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.029	0.021	0.03	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.03	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.03	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.03	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.03	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.03	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.03	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.03	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.03	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.03	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.03	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.03	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.03	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.03	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.03	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.03	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.03	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.03	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.03	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.03	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.03	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.03	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.03	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.03	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.03	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.03	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.03	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.041	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.041	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.041	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.041	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.041	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.041	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.041	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.041	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

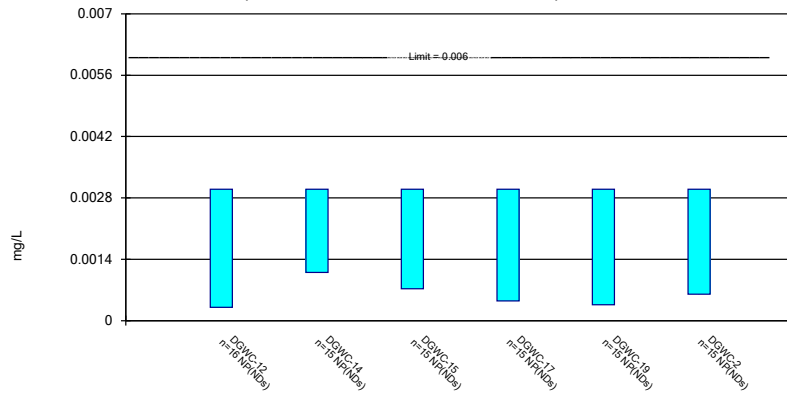
State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

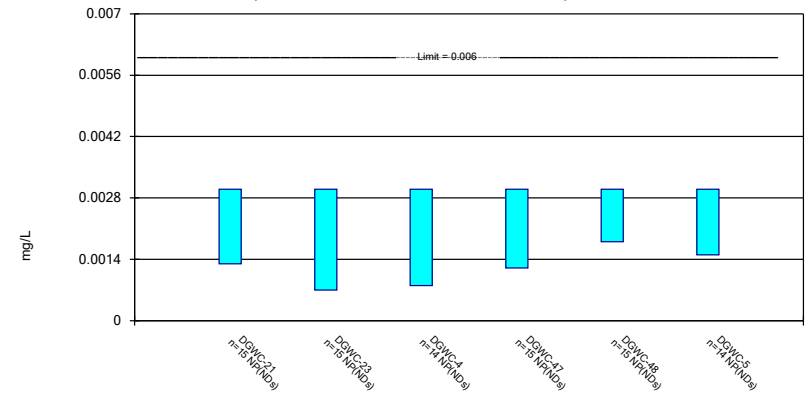
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

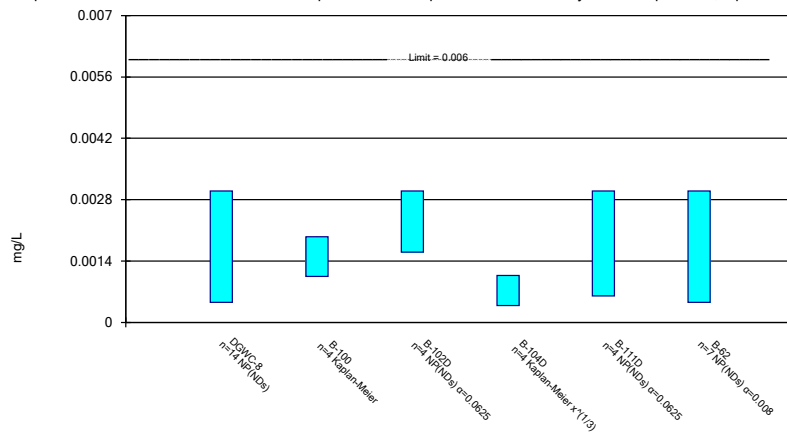
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

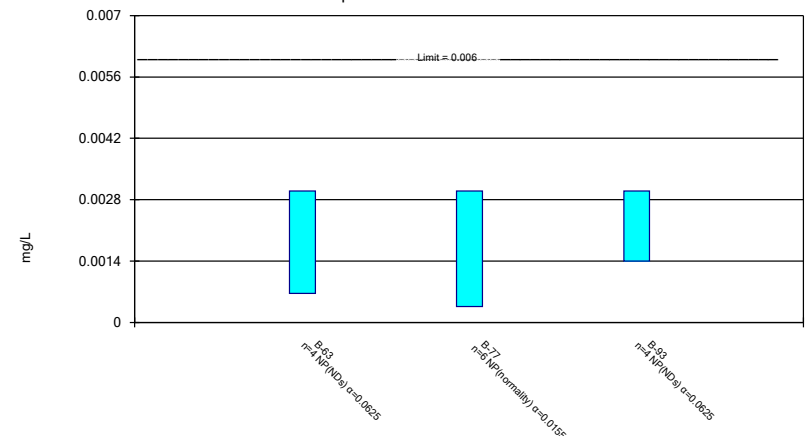
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

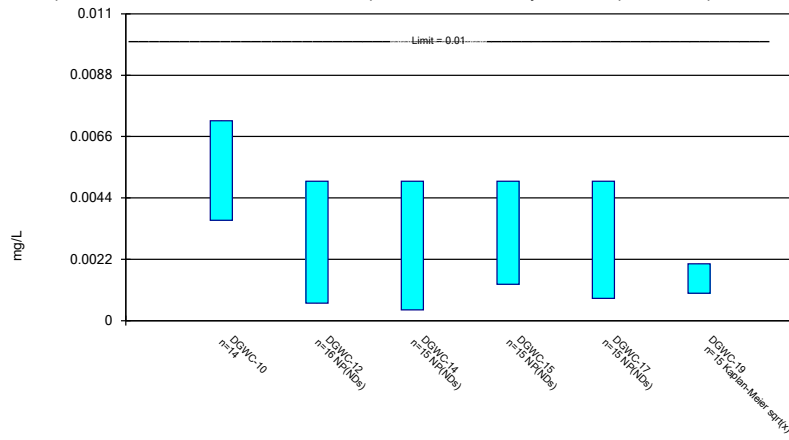
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

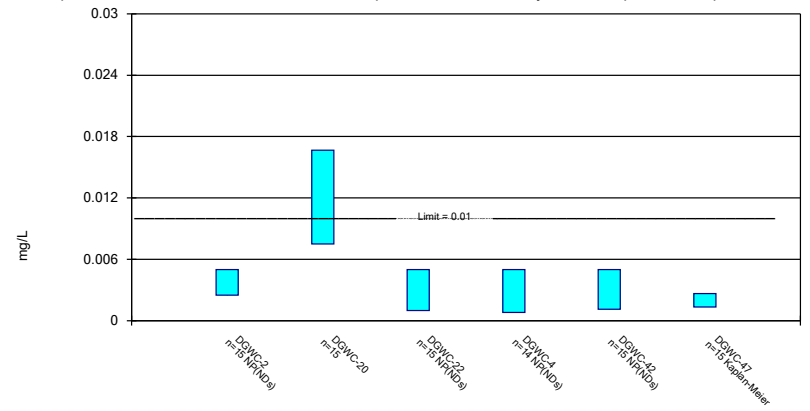
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

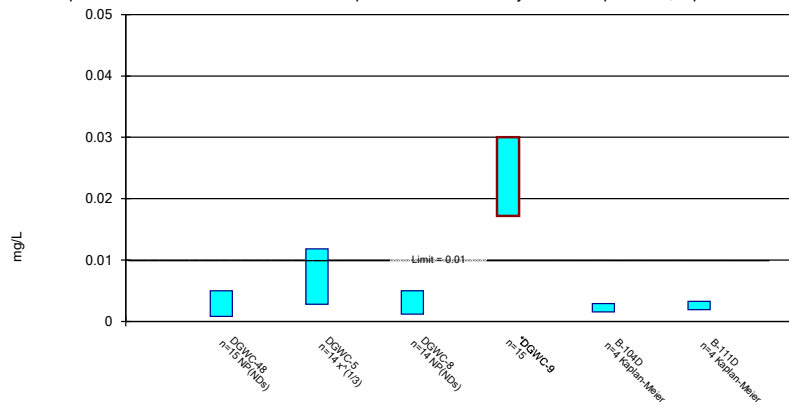
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

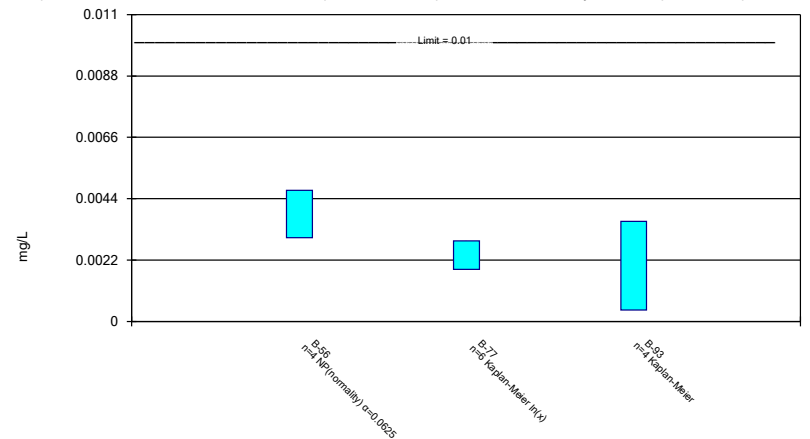
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

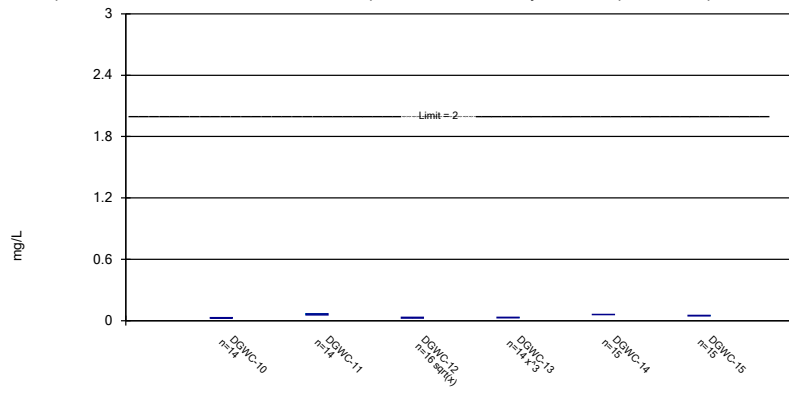
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

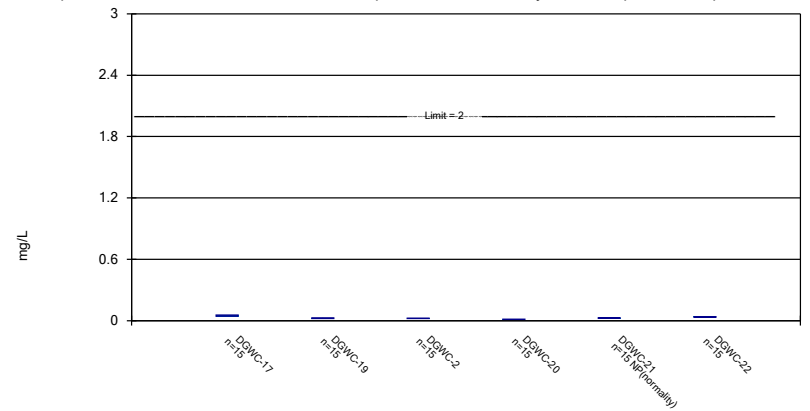
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

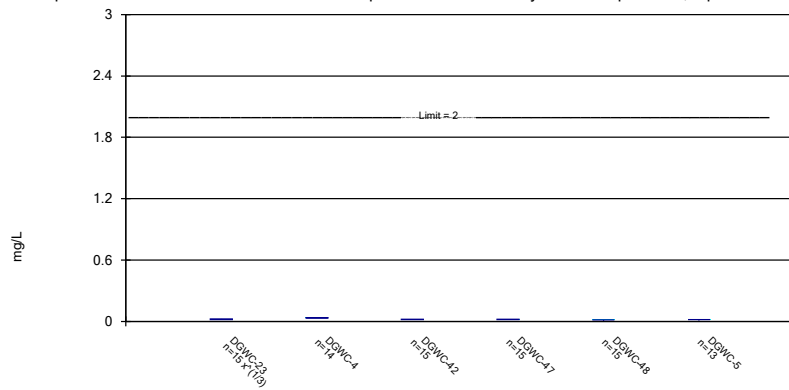
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

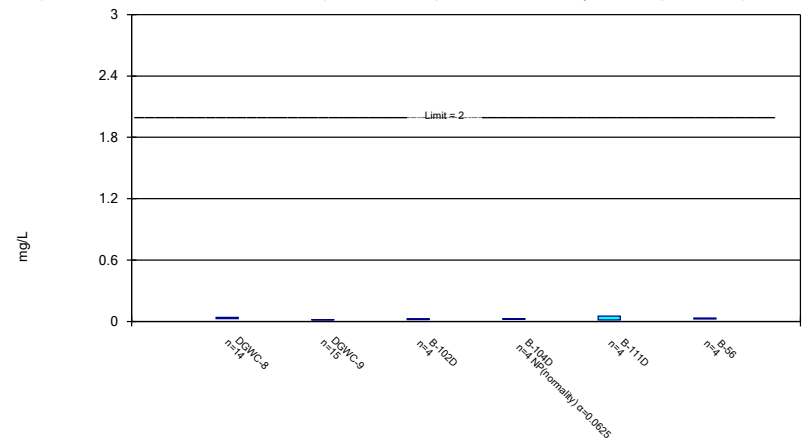
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

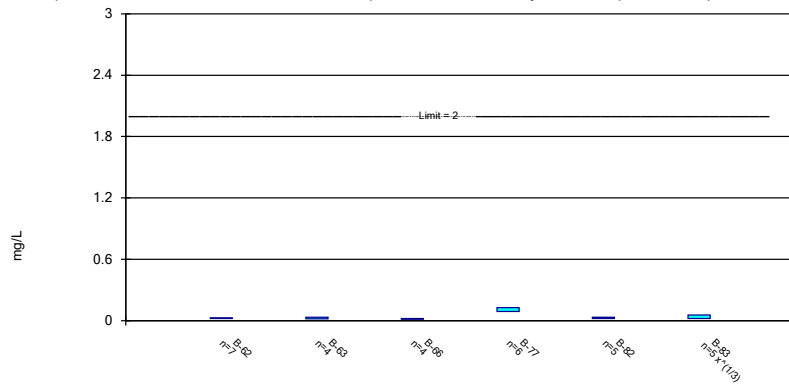
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

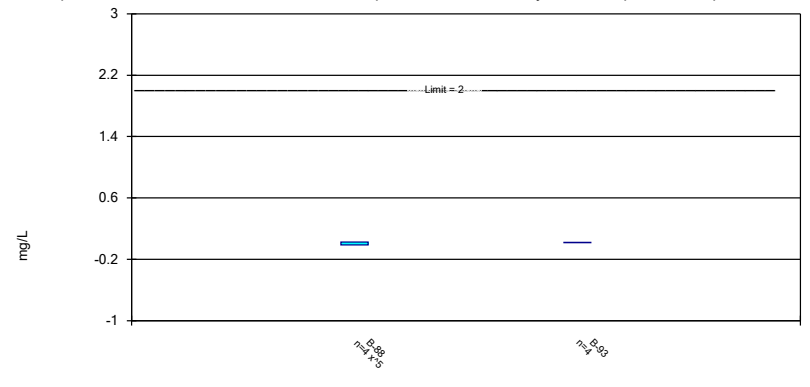
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

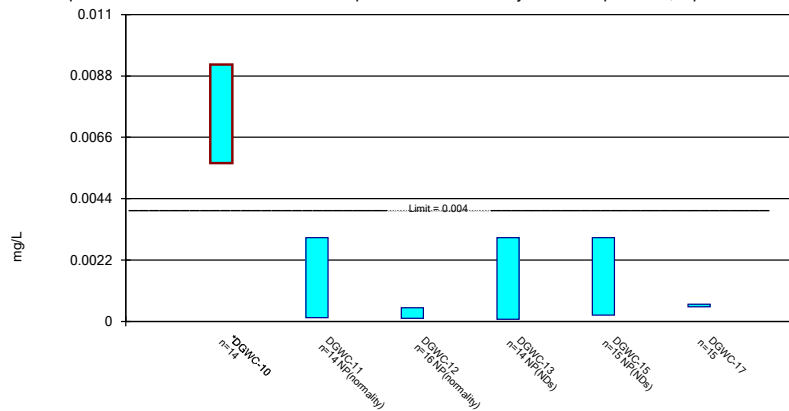
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

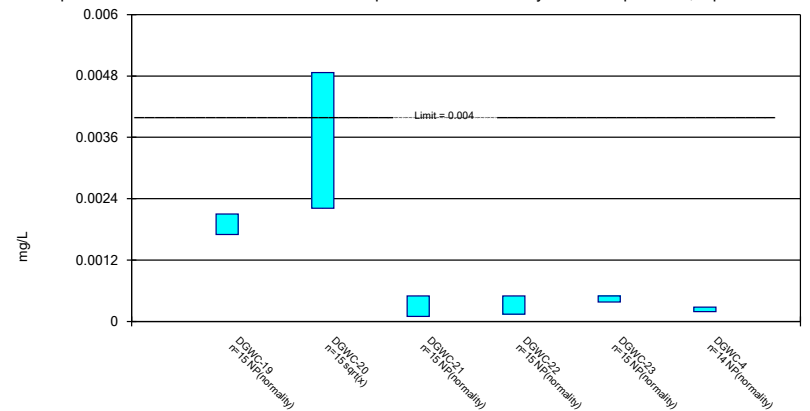
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

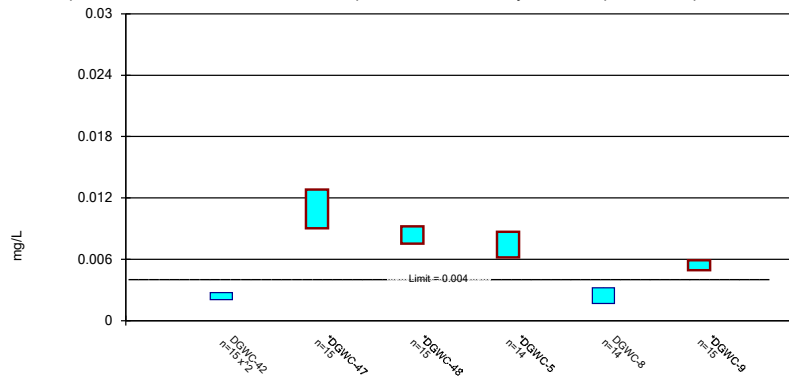
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

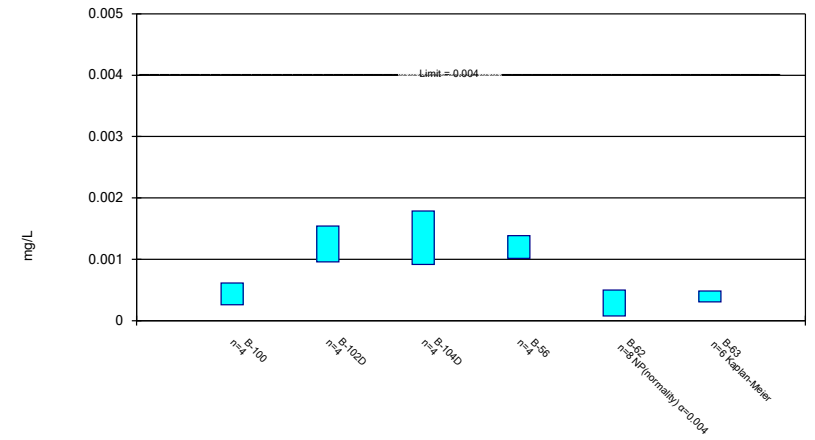
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

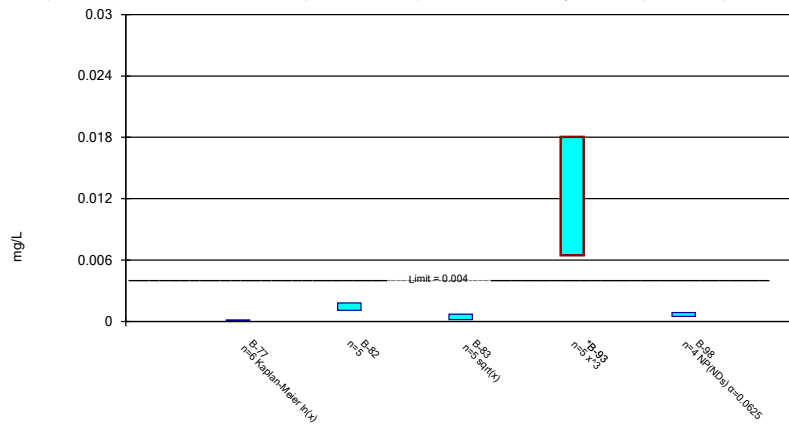
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

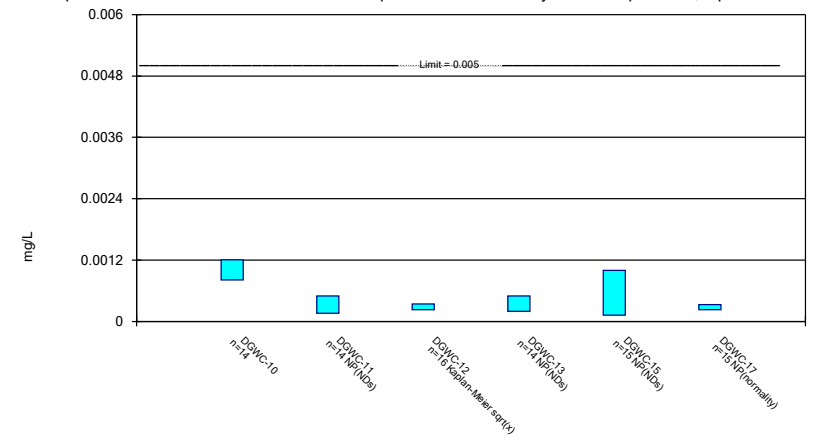
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

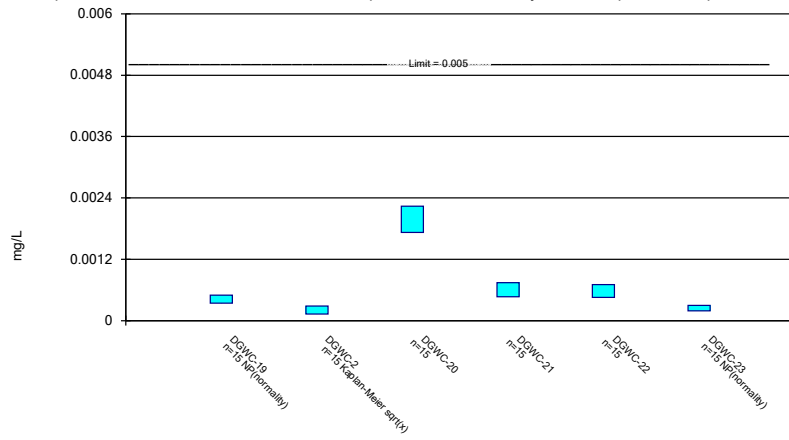
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

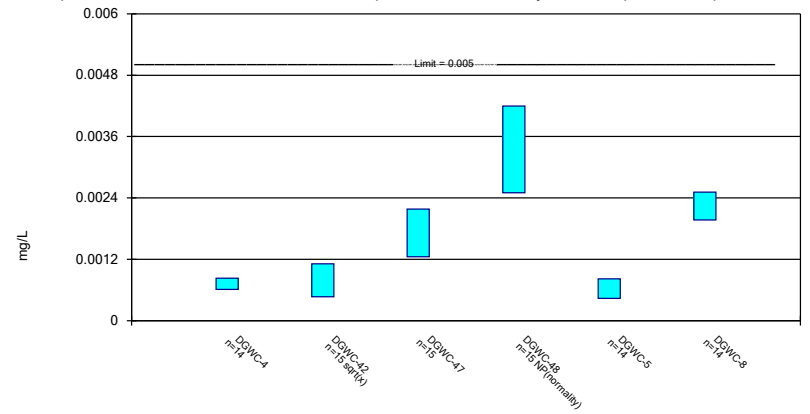
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

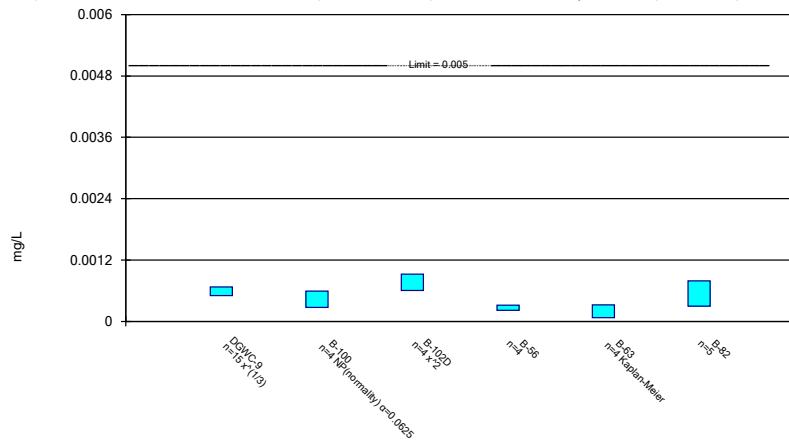
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

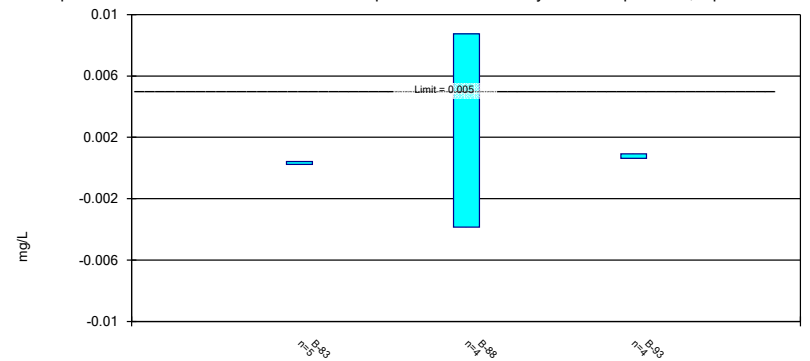
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

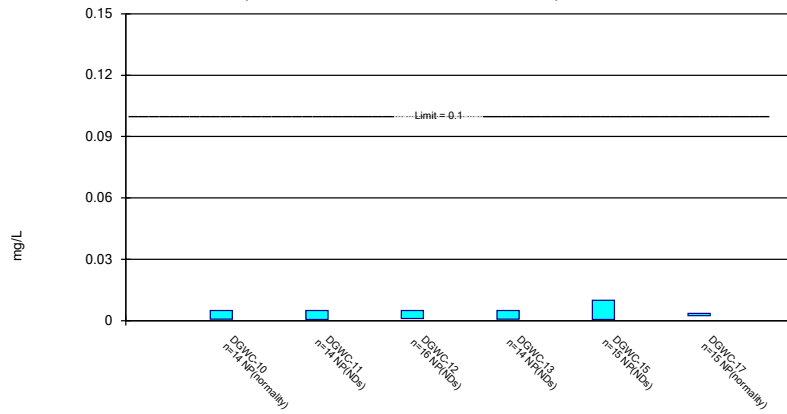
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

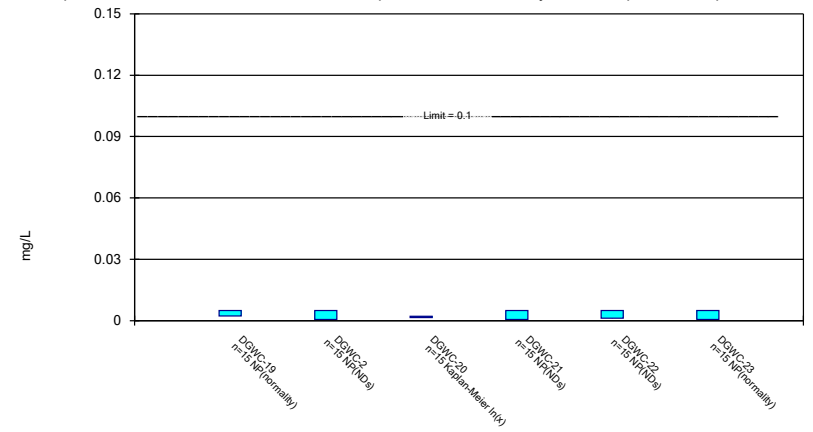
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

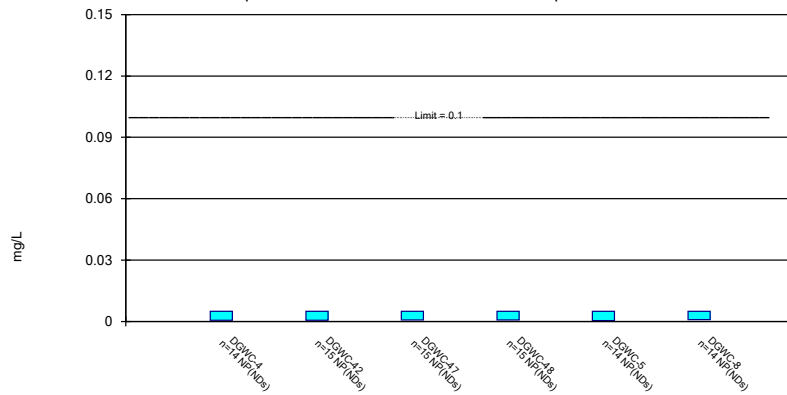
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

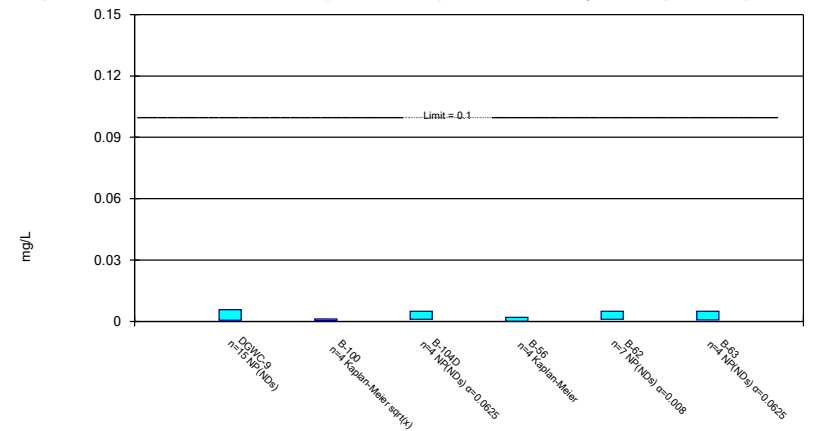
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

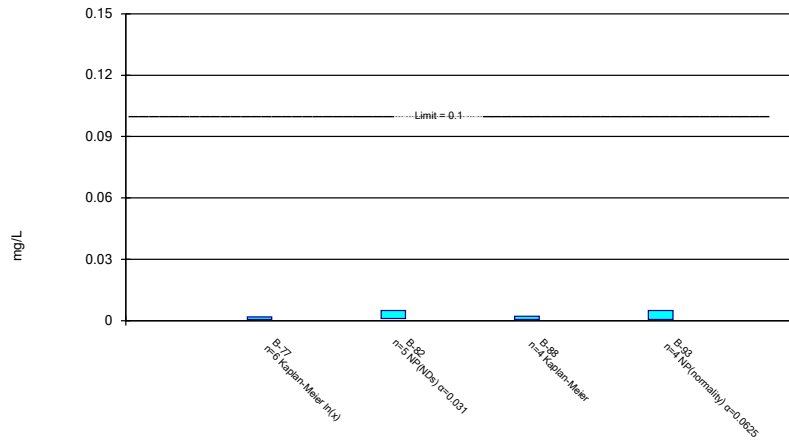
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

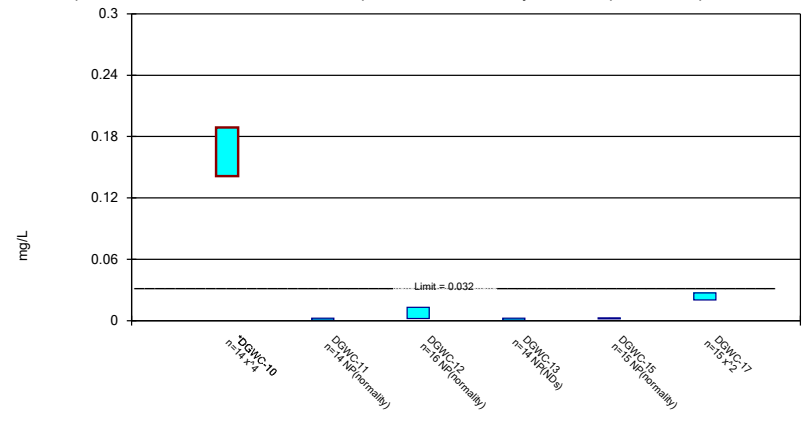
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

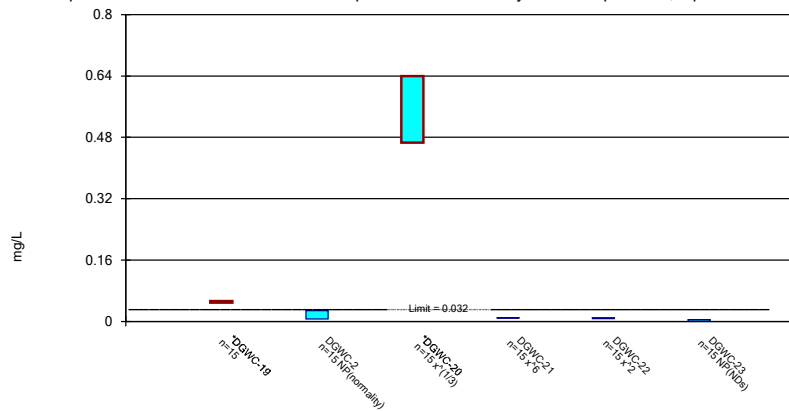
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

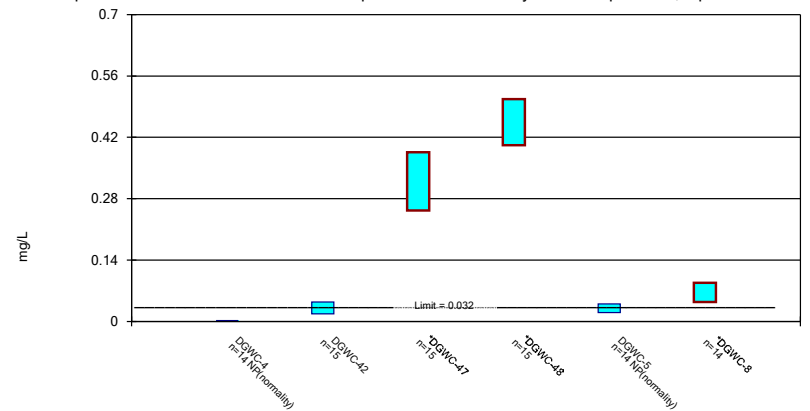
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

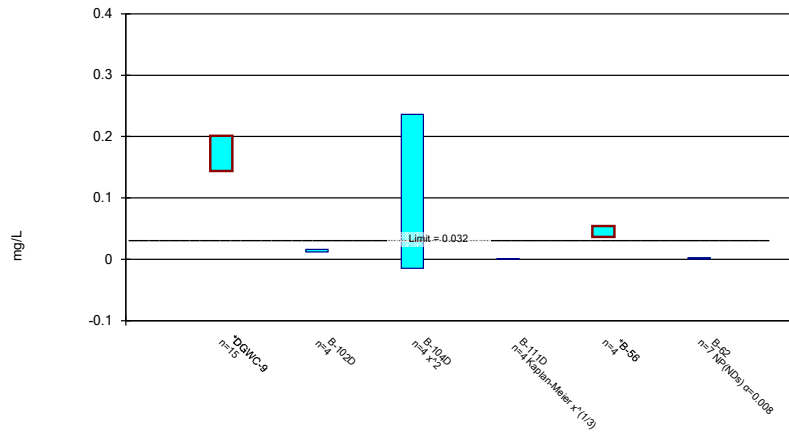
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

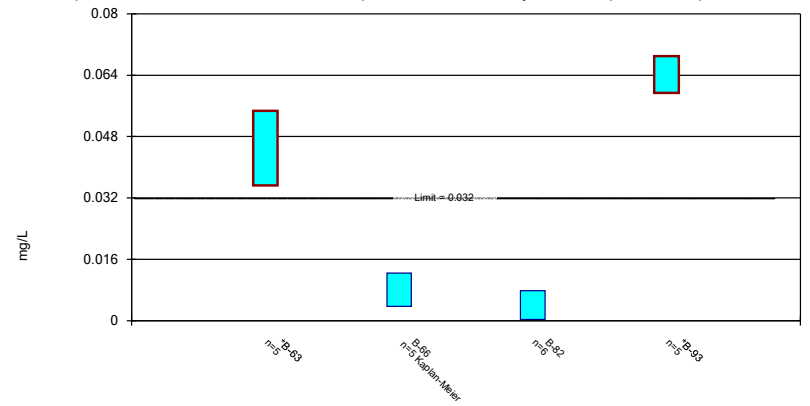
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

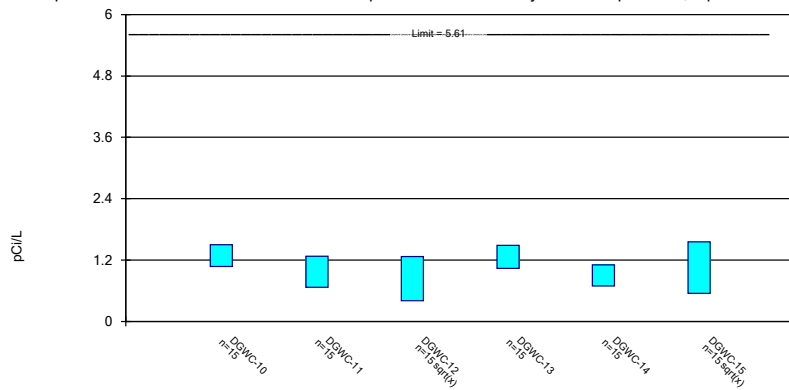
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

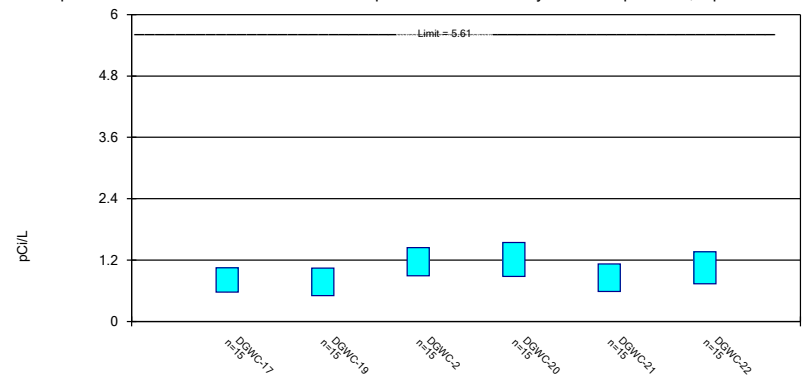
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

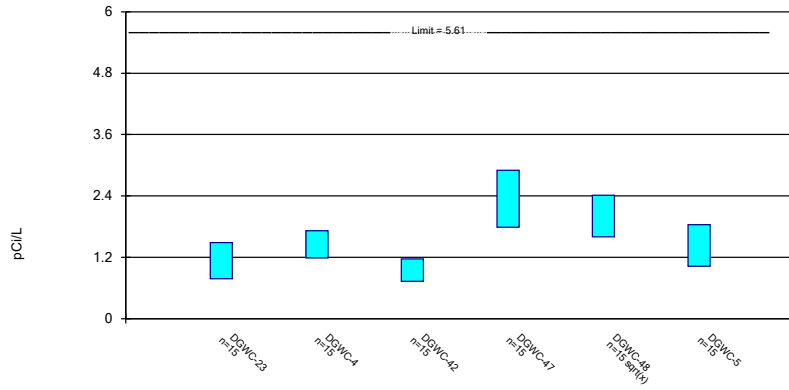
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

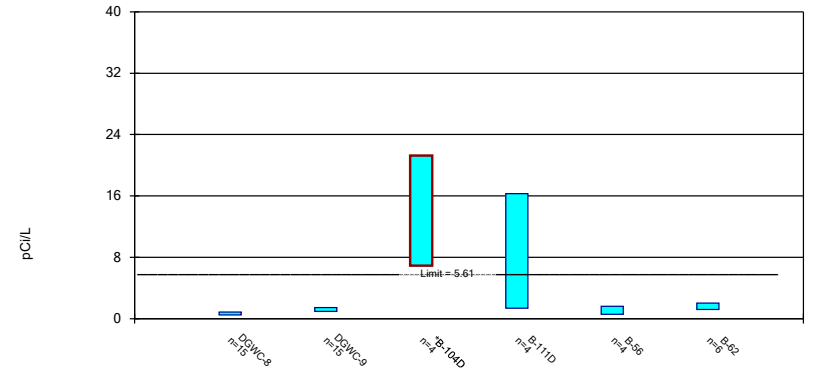
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

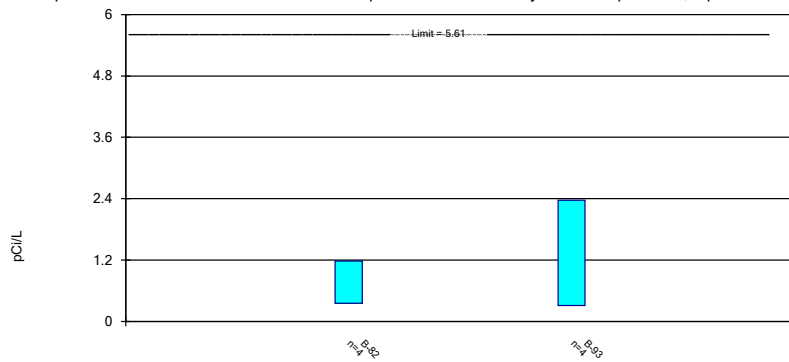
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

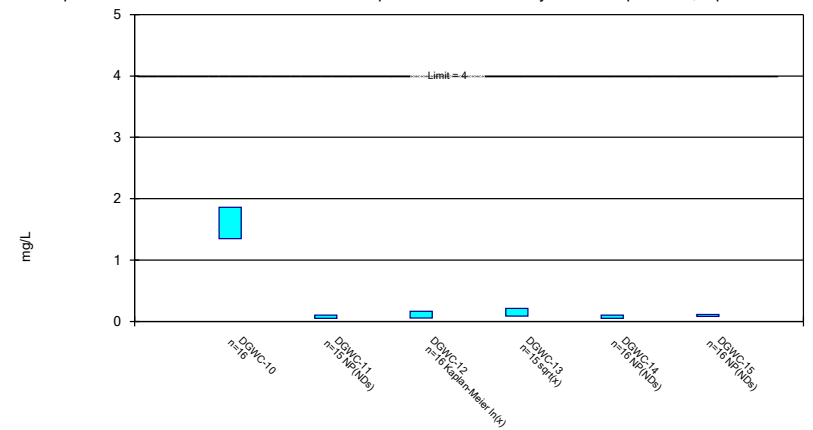
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

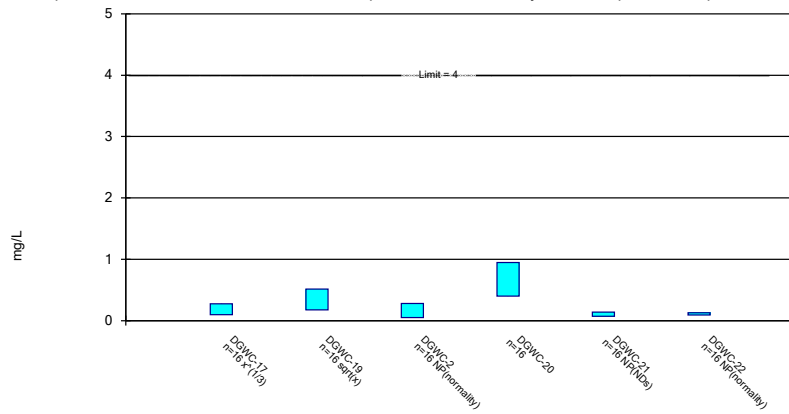
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

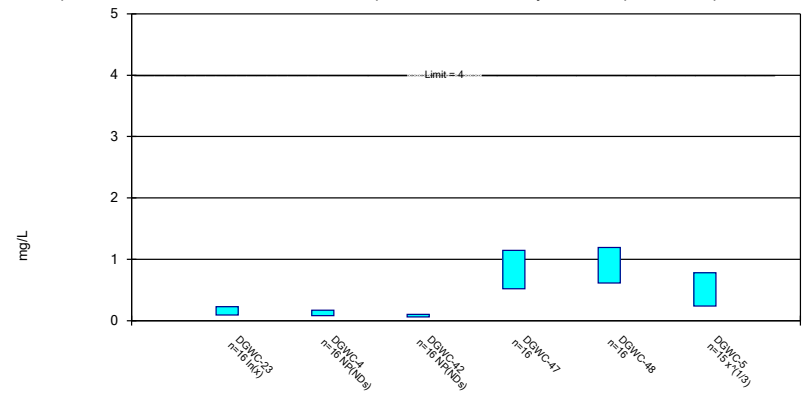
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

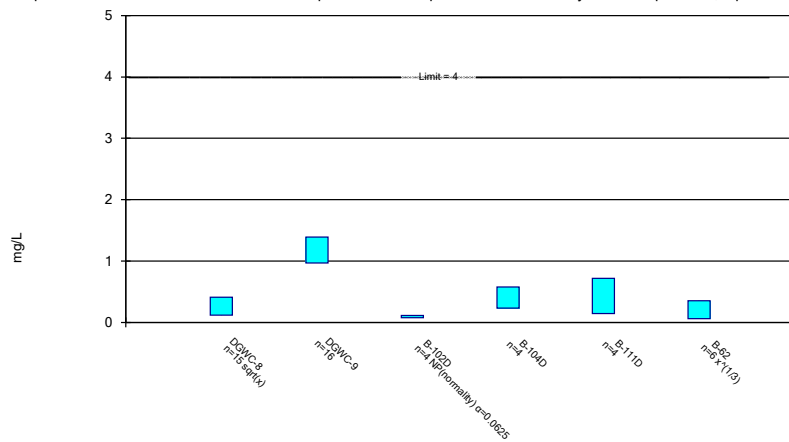
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

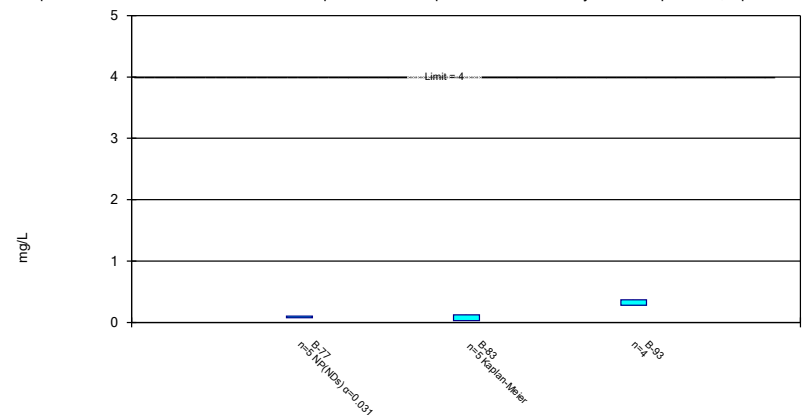
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

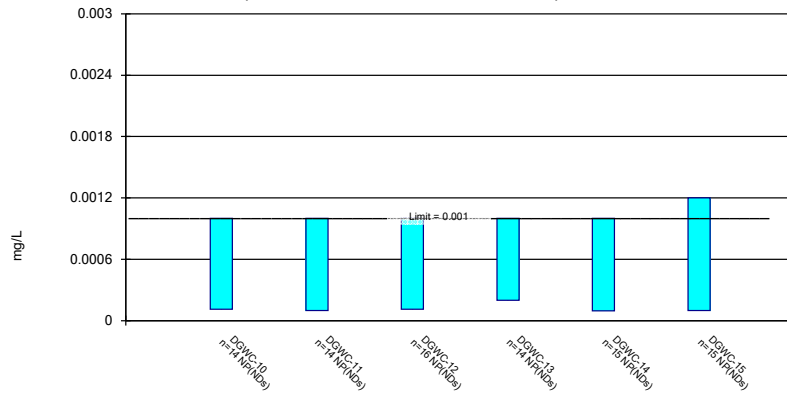
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

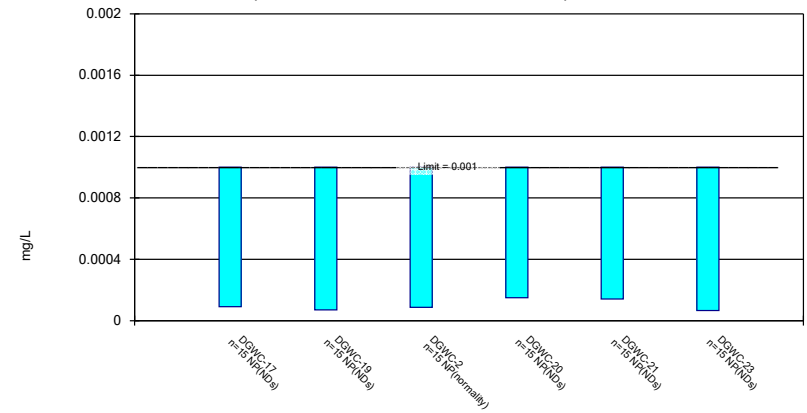
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

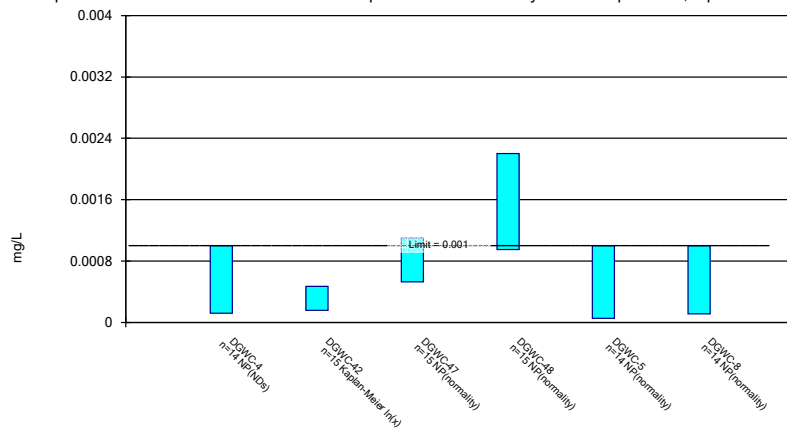
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

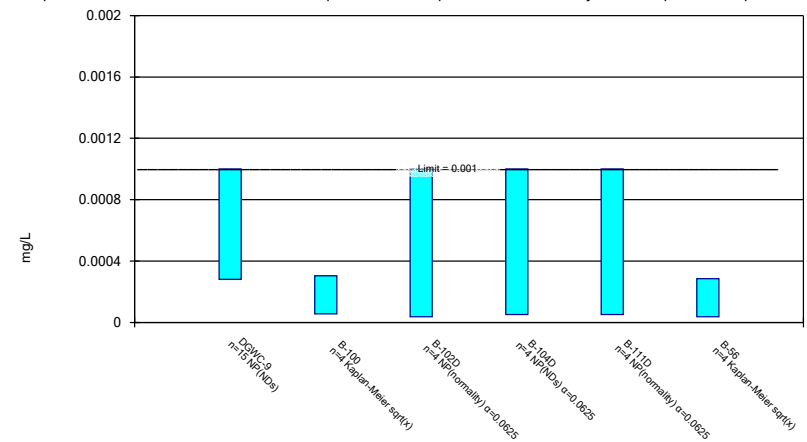
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

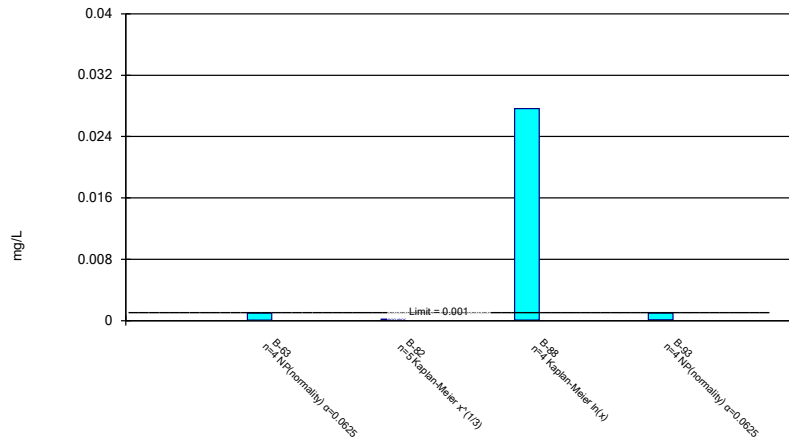
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

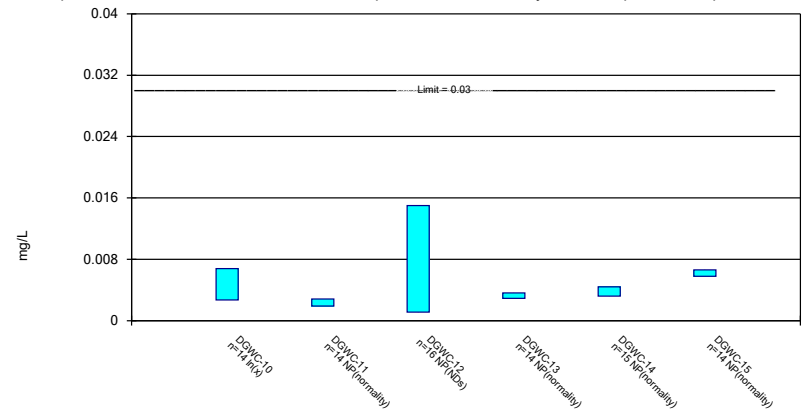
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

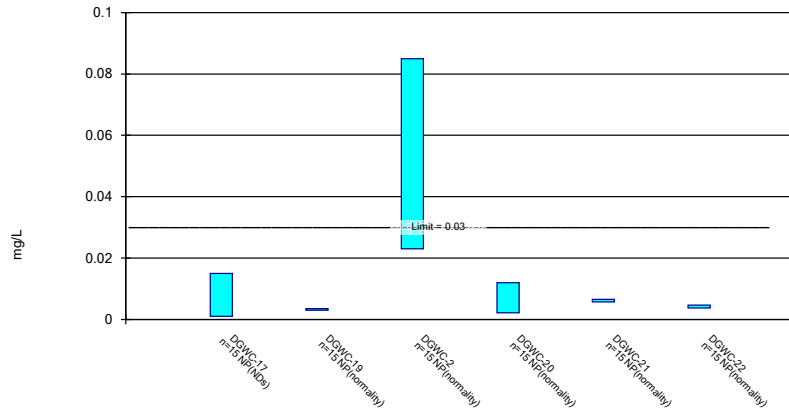
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

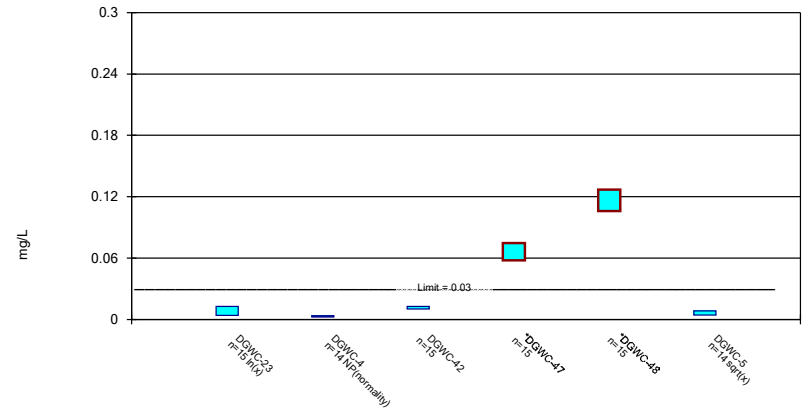
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

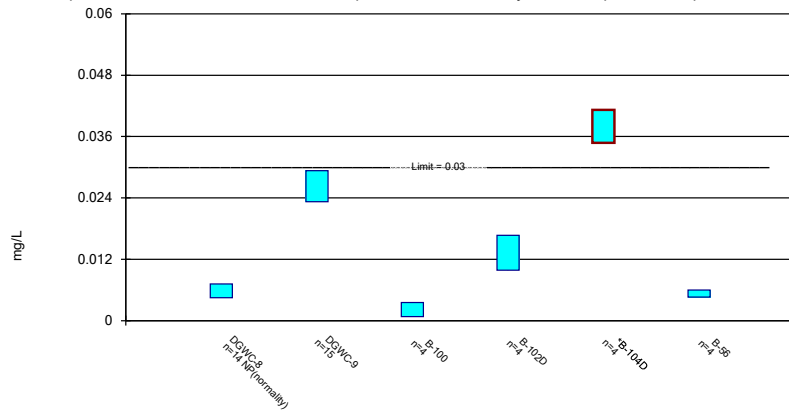
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

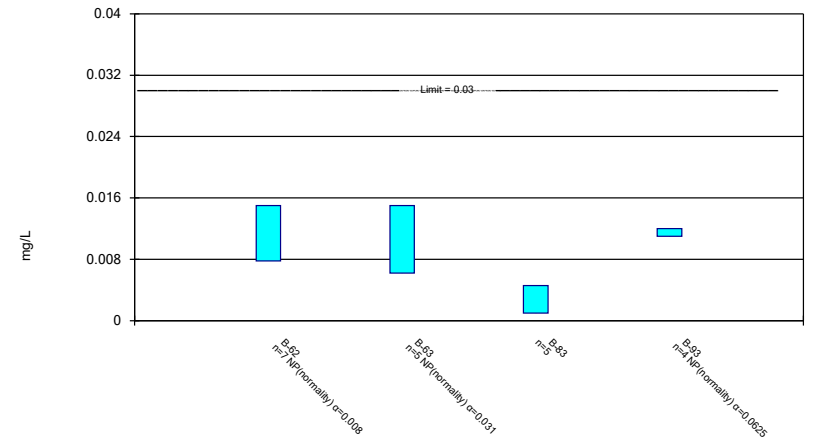
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

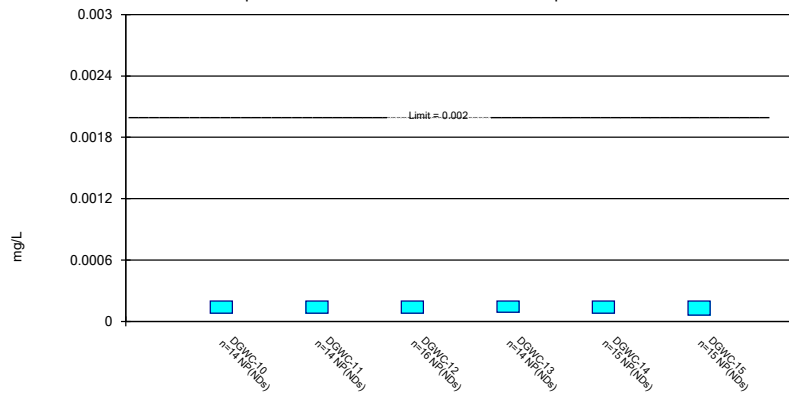
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

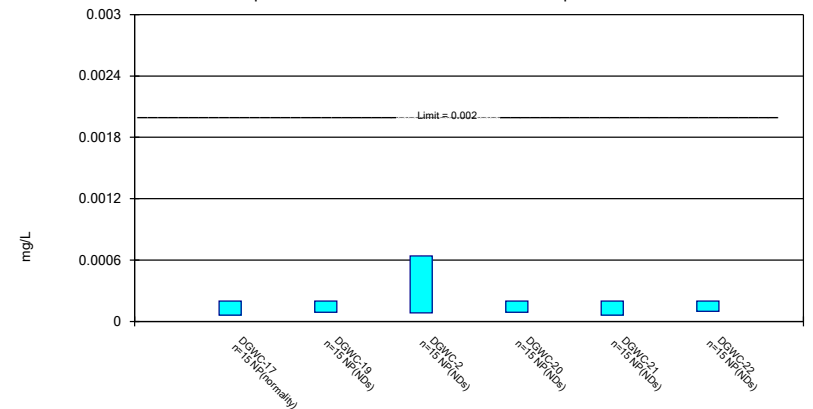
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

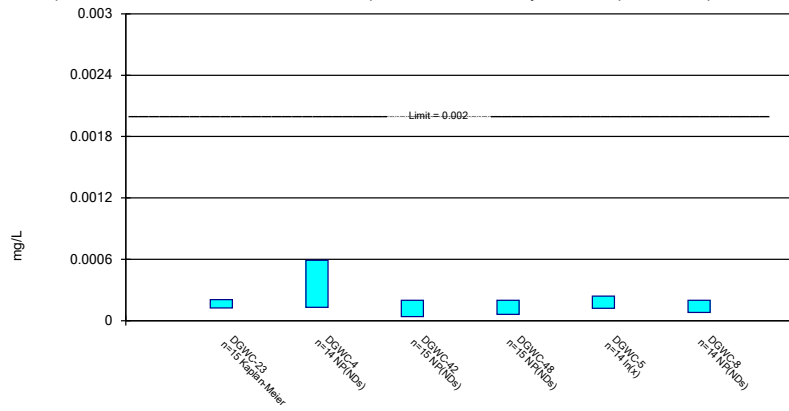
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

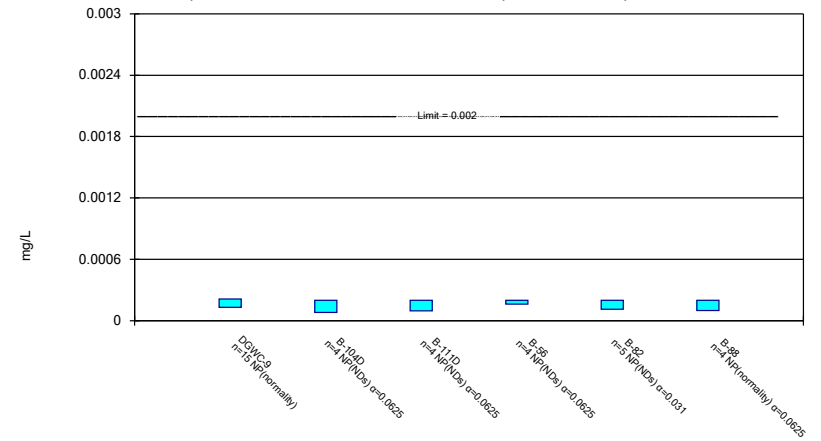
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

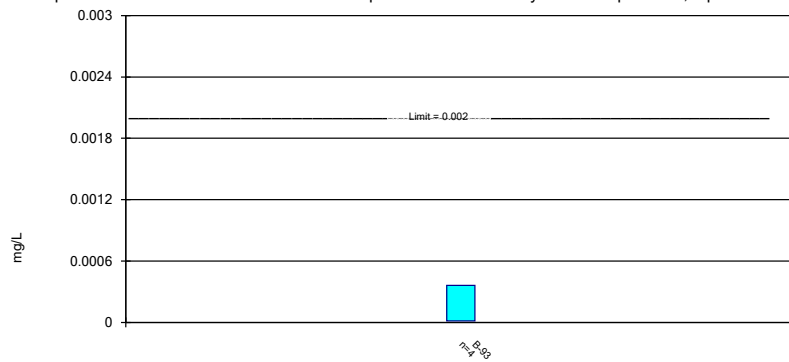
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

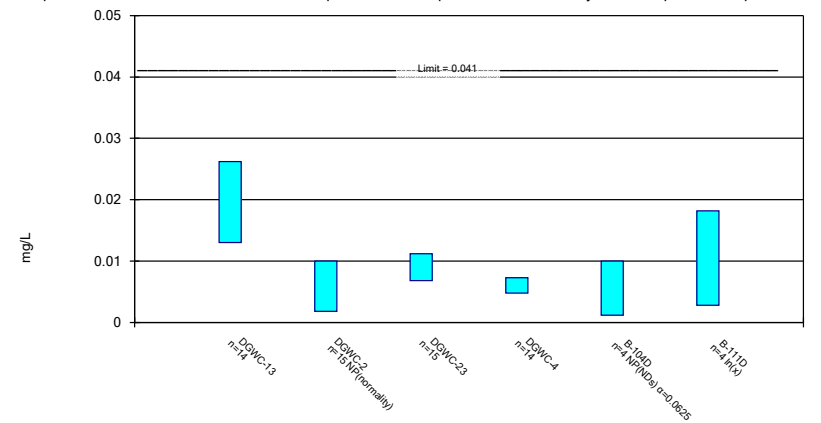
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

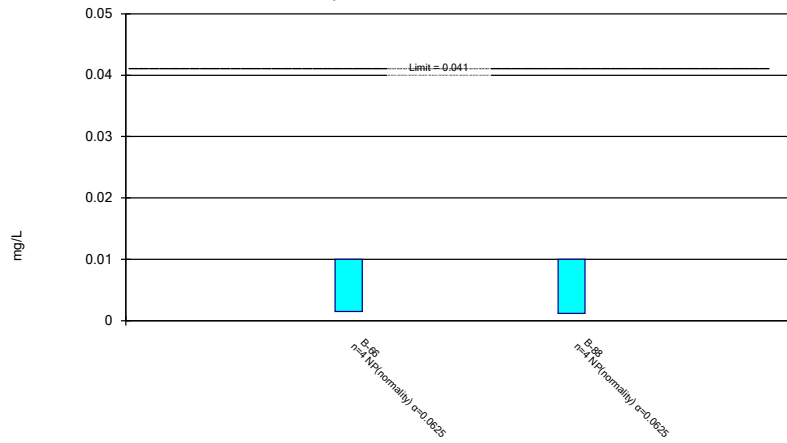
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

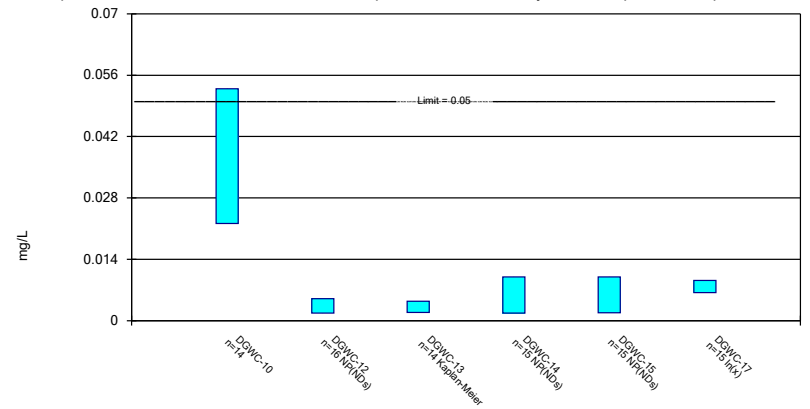
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

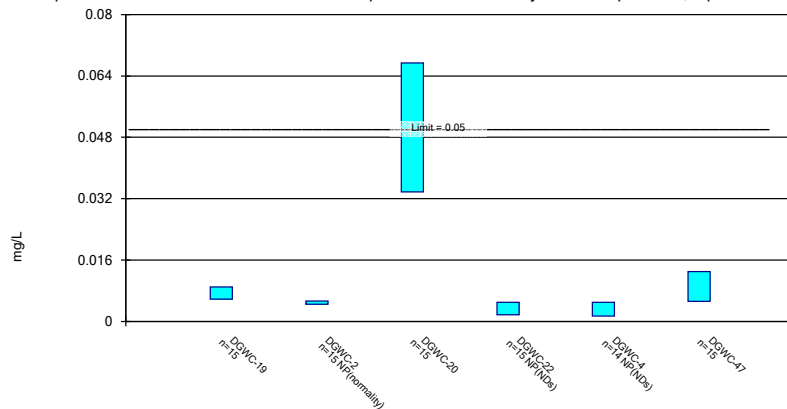
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

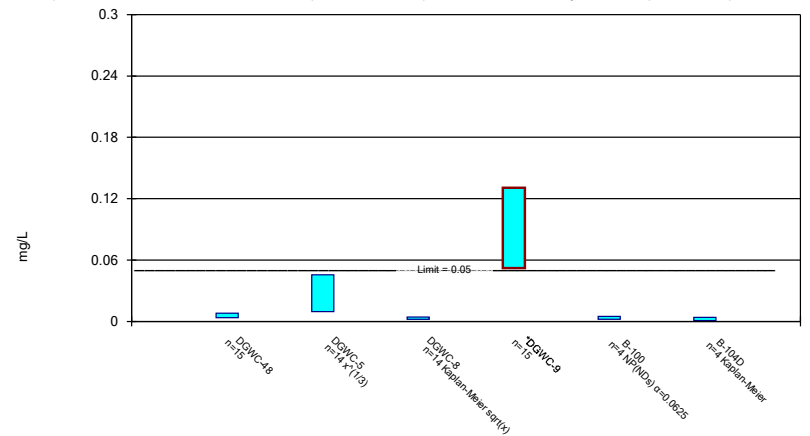
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

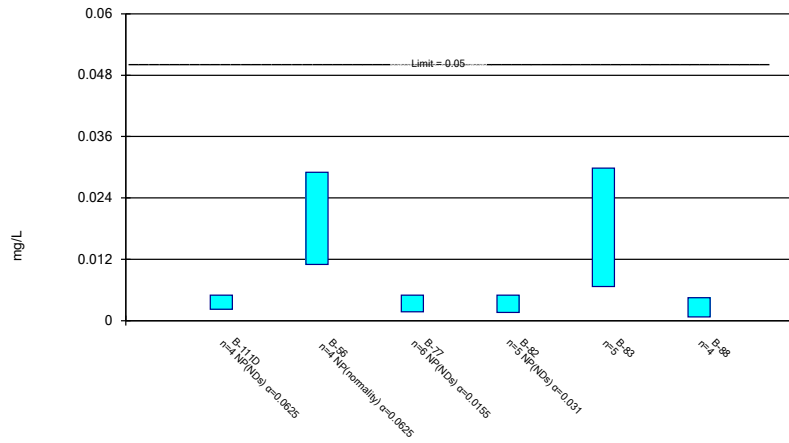
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

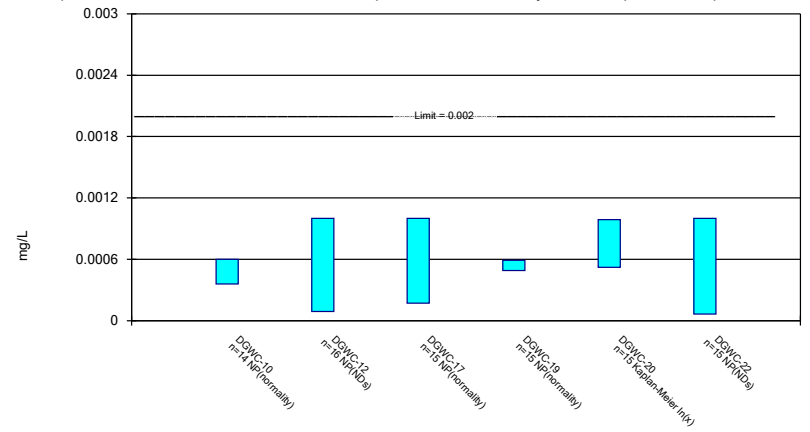
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

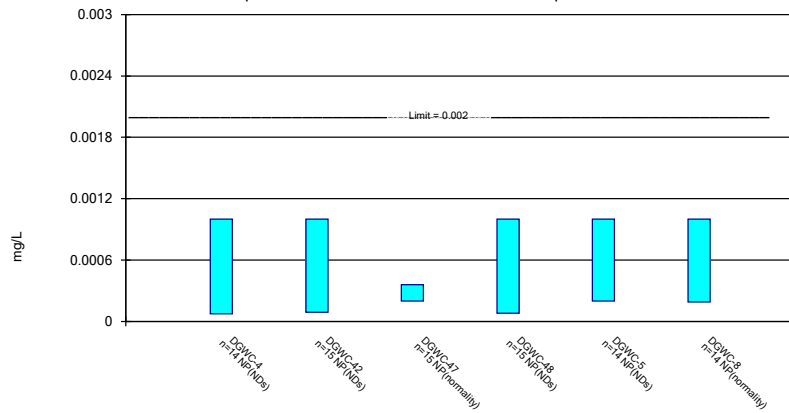
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

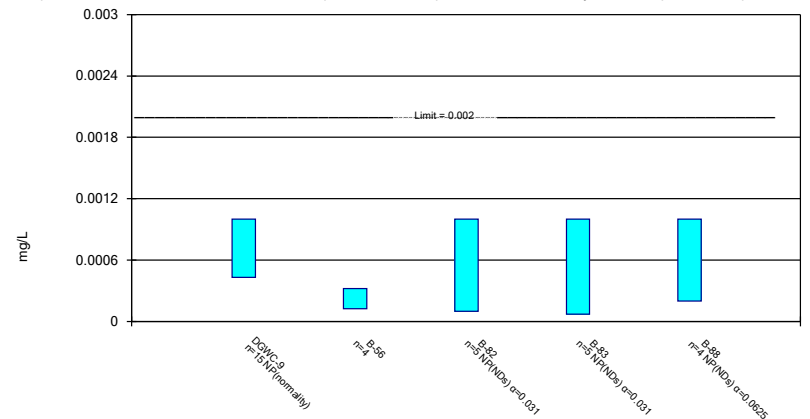
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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: Thallium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		<0.003				
9/1/2016	<0.003				<0.003	
9/6/2016			<0.003			
9/7/2016				<0.003		
12/6/2016		<0.003				
12/7/2016	<0.003		<0.003		<0.003	
12/8/2016				<0.003		
3/29/2017	<0.003	<0.003			<0.003	
3/30/2017			<0.003	<0.003		<0.003
5/11/2017						<0.003
6/15/2017						0.0006 (J)
7/11/2017						<0.003
7/12/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/24/2017						<0.003
10/25/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
2/27/2018	<0.003	<0.003				<0.003
2/28/2018			<0.003	<0.003	<0.003	
7/11/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/6/2018						<0.003
11/7/2018	<0.003	<0.003	<0.003	<0.003	<0.003	
8/27/2019	<0.003	<0.003		<0.003		<0.003
8/28/2019			0.00033 (J)		<0.003	
9/17/2019	<0.003					
10/15/2019	<0.003					
10/16/2019		<0.003			<0.003	
10/17/2019			<0.003			<0.003
10/18/2019				<0.003		
3/2/2020	0.0003 (J)					
3/3/2020		<0.003	<0.003		<0.003	<0.003
3/4/2020				<0.003		
8/11/2020	<0.003	<0.003			<0.003	<0.003
8/13/2020			0.00073 (J)			
8/14/2020				<0.003		
9/22/2020	<0.003	0.0011 (J)			0.00036 (J)	
9/23/2020			<0.003			<0.003
9/24/2020				0.00045 (J)		
3/2/2021		<0.003	<0.003		<0.003	<0.003
3/3/2021	<0.003			<0.003		
9/9/2021	<0.003	<0.003	<0.003		<0.003	<0.003
9/13/2021				<0.003		
Mean	0.002831	0.002873	0.002671	0.00283	0.002824	0.00284
Std. Dev.	0.000675	0.0004906	0.0008724	0.0006584	0.0006816	0.0006197
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0011	0.00073	0.00045	0.00036	0.0006

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.003
9/1/2016				<0.003	<0.003	
9/2/2016	<0.003					
12/6/2016						<0.003
12/8/2016	<0.003			<0.003	<0.003	
3/28/2017			<0.003			<0.003
3/30/2017	<0.003	<0.003			<0.003	
3/31/2017				<0.003		
5/12/2017		<0.003	<0.003			
6/15/2017		0.0007 (J)	0.0008 (J)			
7/11/2017			<0.003			<0.003
7/12/2017	<0.003	<0.003				
7/13/2017				<0.003	<0.003	
10/24/2017			<0.003			
10/25/2017	<0.003					<0.003
10/26/2017		<0.003		<0.003	<0.003	
2/27/2018			<0.003			<0.003
2/28/2018	<0.003					
3/1/2018		<0.003		<0.003		
3/2/2018					<0.003	
7/11/2018	0.0013 (J)					
7/12/2018		<0.003		<0.003	<0.003	
11/6/2018			<0.003			<0.003
11/7/2018	<0.003			<0.003	<0.003	
11/8/2018		<0.003				
8/27/2019			<0.003			<0.003
8/29/2019	<0.003	<0.003		<0.003	<0.003	
10/15/2019			<0.003			
10/16/2019						<0.003
10/17/2019	<0.003			<0.003		
10/18/2019		<0.003			<0.003	
3/2/2020			0.00058 (J)			0.00032 (J)
3/3/2020	<0.003					
3/4/2020		<0.003		<0.003	<0.003	
8/12/2020			<0.003	<0.003		<0.003
8/13/2020		<0.003			<0.003	
8/14/2020	<0.003					
9/22/2020			<0.003			<0.003
9/23/2020				0.0012 (J)	0.00039 (J)	
9/24/2020	<0.003	<0.003				
3/1/2021			0.00049 (J)			
3/2/2021						0.0015 (J)
3/3/2021	<0.003	<0.003		<0.003	<0.003	
9/9/2021	<0.003	<0.003				
9/10/2021			<0.003	<0.003	0.0018 (J)	<0.003
Mean	0.002887	0.002847	0.002491	0.00288	0.002746	0.002701
Std. Dev.	0.0004389	0.0005939	0.001014	0.0004648	0.0007213	0.0007935
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0007	0.0008	0.0012	0.0018	0.0015

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	B-100	B-102D	B-104D	B-111D	B-62
8/30/2016	<0.003					
12/6/2016	<0.003					
3/29/2017	<0.003					
7/11/2017	<0.003					
10/24/2017	<0.003					
2/27/2018	<0.003					
11/6/2018	<0.003					
1/30/2019						<0.003
8/28/2019	<0.003					
9/11/2019						<0.003
10/16/2019	<0.003					
10/21/2019						<0.003
3/3/2020	<0.003					
8/12/2020	<0.003					
8/13/2020						<0.003
8/17/2020		0.0013 (J)				
9/23/2020	<0.003					
9/24/2020						0.00046 (J)
9/25/2020		<0.003				
12/9/2020				0.00079 (J)	<0.003	
12/17/2020			0.0016 (J)			
1/11/2021			<0.003			
1/12/2021				0.00048 (J)	<0.003	
3/2/2021	0.00046 (J)					
3/4/2021			<0.003	0.00077 (J)		
3/5/2021					0.0006 (J)	
3/8/2021		0.0017 (J)				
3/12/2021						<0.003
9/9/2021						<0.003
9/10/2021			<0.003			
9/13/2021	<0.003	<0.003				
9/14/2021				<0.003	<0.003	
Mean	0.002819	0.00225	0.00265	0.00126	0.0024	0.002637
Std. Dev.	0.0006788	0.0008813	0.0007	0.001169	0.0012	0.00096
Upper Lim.	0.003	0.001954	0.003	0.001068	0.003	0.003
Lower Lim.	0.00046	0.001046	0.0016	0.0003847	0.0006	0.00046

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-93
1/28/2019	<0.003		
9/11/2019	<0.003		
9/18/2019		<0.003	
10/22/2019	0.00066 (J)		
10/24/2019		<0.003	
8/13/2020		0.00043 (J)	
8/19/2020			<0.003
9/24/2020		0.00036 (J)	
9/28/2020			0.0014 (J)
3/4/2021		0.00063 (J)	
3/9/2021			<0.003
9/14/2021	<0.003	<0.003	
9/15/2021			<0.003
Mean	0.002415	0.001737	0.0026
Std. Dev.	0.00117	0.001387	0.0008
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00066	0.00036	0.0014

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	0.0058		<0.005			
9/1/2016		<0.005				0.0022 (J)
9/6/2016				<0.005		
9/7/2016					<0.005	
12/6/2016	0.0017 (J)		<0.005			
12/7/2016		<0.005		<0.005		<0.005
12/8/2016					<0.005	
3/29/2017	0.0055	<0.005	<0.005			0.002 (J)
3/30/2017				0.0006 (J)	0.0008 (J)	
7/12/2017	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	0.0058					
10/25/2017		0.0006 (J)	<0.005	<0.005	0.0007 (J)	0.0022 (J)
2/27/2018	0.0105	<0.005	<0.005			
2/28/2018				<0.005	0.00073 (J)	0.0028 (J)
7/11/2018		<0.005	<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005 (J)					
11/7/2018		<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019				<0.005		0.00049 (J)
9/17/2019		<0.005				
10/15/2019	0.0078	0.00063 (J)				
10/16/2019			0.00039 (J)			0.00046 (J)
10/17/2019				0.00064 (J)		
10/18/2019					0.0012 (J)	
3/2/2020		<0.005				
3/3/2020	0.0025 (J)		<0.005	<0.005		<0.005
3/4/2020					0.0014 (J)	
8/11/2020	0.0028 (J)	<0.005	<0.005			0.0014 (J)
8/13/2020				0.0013 (J)		
8/14/2020					<0.005	
9/22/2020		<0.005	<0.005			0.0017 (J)
9/23/2020				<0.005		
9/24/2020	0.0078				0.0011 (J)	
3/2/2021			<0.005	<0.005		0.0013 (J)
3/3/2021		<0.005			<0.005	
3/4/2021	0.006					
9/9/2021		<0.005	<0.005	<0.005		0.0027 (J)
9/10/2021	0.0076					
9/13/2021					<0.005	
Mean	0.005386	0.004452	0.004693	0.004169	0.003395	0.002317
Std. Dev.	0.002519	0.001498	0.00119	0.001726	0.002042	0.001551
Upper Lim.	0.00717	0.005	0.005	0.005	0.005	0.002035
Lower Lim.	0.003601	0.00063	0.00039	0.0013	0.0008	0.0009847

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
Mean	0.004566	0.01208	0.004733	0.004057	0.004453	0.002627
Std. Dev.	0.00118	0.006761	0.001033	0.001875	0.001445	0.001504
Upper Lim.	0.005	0.01666	0.005	0.005	0.005	0.002647
Lower Lim.	0.0025	0.007499	0.001	0.0008	0.0011	0.001328

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-104D	B-111D
8/30/2016			<0.005	0.0241		
8/31/2016		0.0035 (J)				
9/1/2016	<0.005					
12/6/2016		0.0032 (J)	<0.005	<0.005		
12/8/2016	<0.005					
3/28/2017		0.0385		0.0243		
3/29/2017			0.001 (J)			
3/30/2017	0.0015 (J)					
7/11/2017		0.0203	0.0012 (J)	0.0194		
7/13/2017	0.0012 (J)					
10/24/2017			0.0015 (J)	0.0249		
10/25/2017		0.0119				
10/26/2017	0.0008 (J)					
2/27/2018		0.0094	0.002 (J)	0.0405		
3/2/2018	0.0017 (J)					
7/11/2018				0.016		
7/12/2018	0.0015 (J)					
11/6/2018		<0.005	<0.005	0.017		
11/7/2018	<0.005					
8/27/2019		<0.005		0.021		
8/28/2019			<0.005			
8/29/2019	<0.005					
10/16/2019		0.0036 (J)	<0.005			
10/17/2019				0.033		
10/18/2019	0.00079 (J)					
3/2/2020		0.0052				
3/3/2020			0.00096 (J)	0.015		
3/4/2020	0.0006 (J)					
8/11/2020				0.022		
8/12/2020		0.002 (J)	<0.005			
8/13/2020	<0.005					
9/22/2020		0.0062		0.04		
9/23/2020	<0.005		<0.005			
12/9/2020				<0.005	<0.005	
1/12/2021				<0.005	<0.005	
3/2/2021		0.0013 (J)	<0.005	0.021		
3/3/2021	<0.005					
3/4/2021				0.0025 (J)		
3/5/2021					0.0023 (J)	
9/10/2021	<0.005	0.0031 (J)		0.031		
9/13/2021			<0.005			
9/14/2021				0.0019 (J)	0.0029 (J)	
Mean	0.003206	0.008443	0.00369	0.02361	0.0036	0.0038
Std. Dev.	0.002005	0.009971	0.001839	0.009468	0.001635	0.001407
Upper Lim.	0.005	0.0118	0.005	0.03003	0.002881	0.003281
Lower Lim.	0.0008	0.002817	0.0012	0.0172	0.001519	0.001919

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-77	B-93
9/18/2019		<0.005	
10/24/2019		0.0029 (J)	
8/13/2020		0.002 (J)	
8/17/2020	0.0032 (J)		
8/19/2020			0.0013 (J)
9/24/2020		0.0025 (J)	
9/28/2020	0.0047 (J)		0.0027 (J)
3/3/2021	0.003 (J)		
3/4/2021		0.002 (J)	
3/9/2021			<0.005
9/13/2021	0.0031 (J)		
9/14/2021		<0.005	
9/15/2021			<0.005
Mean	0.0035	0.003233	0.0035
Std. Dev.	0.0008042	0.001409	0.001824
Upper Lim.	0.0047	0.002882	0.003589
Lower Lim.	0.003	0.001869	0.0004108

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0321	0.0545			0.0576	
9/1/2016			0.0254			
9/6/2016				0.0297		0.0497
12/6/2016	0.029	0.0564			0.0608	
12/7/2016			0.0241	0.0266		0.0469
3/29/2017	0.0335	0.0565	0.0268		0.0693	
3/30/2017				0.0308		0.0495
7/12/2017	0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
10/24/2017	0.0317	0.0596				
10/25/2017			0.0268		0.0563	0.0474
11/15/2017				0.0309		
2/27/2018	0.028	0.0672	0.0255		0.0591	
2/28/2018				<0.01		0.0455
7/11/2018			0.026		0.061	0.05
11/6/2018	0.025	0.074				
11/7/2018			0.028	0.034	0.055	0.042
8/27/2019	0.021	0.071	0.024		0.059	
8/28/2019				0.033		0.047
9/17/2019			0.02			
10/15/2019	0.024	0.064	0.02			
10/16/2019				0.034	0.059	
10/17/2019						0.046
3/2/2020		0.071	0.04			
3/3/2020	0.024			0.035	0.064	0.05
8/11/2020	0.024	0.064	0.028		0.061	
8/12/2020				0.032		
8/13/2020						0.06
9/22/2020		0.058	0.036		0.06	
9/23/2020				0.03		0.043
9/24/2020	0.021					
3/2/2021		0.052		0.03	0.064	0.043
3/3/2021			0.035			
3/4/2021	0.025					
9/9/2021		0.054	0.04	0.027	0.059	0.041
9/10/2021	0.019					
Mean	0.02634	0.06139	0.02824	0.02908	0.06024	0.04751
Std. Dev.	0.004637	0.007138	0.006231	0.007369	0.003493	0.004744
Upper Lim.	0.02962	0.06644	0.03199	0.03292	0.06261	0.05073
Lower Lim.	0.02305	0.05633	0.02415	0.02732	0.05787	0.0443

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
9/2/2016				0.0097 (J)	0.0252	0.0397
9/7/2016	0.0694					
12/7/2016		0.0191		0.0087 (J)		
12/8/2016	0.062				0.0262	0.0408
3/29/2017		0.0209		0.0094 (J)		0.0417
3/30/2017	0.0615		0.0232		0.0272	
5/11/2017			0.0231			
6/15/2017			0.0223			
7/11/2017			0.0201			
7/12/2017	0.0532	0.0212		0.0099 (J)	0.0276	
7/13/2017						0.0376
10/24/2017			0.0206			
10/25/2017	0.0544	0.021		0.0096 (J)	0.0262	0.0384
2/27/2018			0.0207			
2/28/2018	0.0527	0.0213		<0.01	0.027	0.0353
7/11/2018	0.053	0.023	0.022	0.01	0.027	
7/12/2018						0.036
11/6/2018			0.021			
11/7/2018	0.044	0.024		0.011	0.024	0.031
8/27/2019	0.05		0.023			
8/28/2019		0.026				
8/29/2019				0.018	0.027	0.031
10/16/2019		0.024				
10/17/2019			0.022	0.015	0.027	
10/18/2019	0.045					0.032
3/3/2020		0.028	0.022		0.027	0.035
3/4/2020	0.044			0.017		
8/11/2020		0.027	0.022			
8/13/2020				0.019		
8/14/2020	0.046				0.027	0.035
9/22/2020		0.026		0.011		
9/23/2020			0.023			
9/24/2020	0.033				0.024	0.031
3/2/2021		0.026	0.023	0.021		
3/3/2021	0.036				0.024	0.031
9/9/2021		0.025	0.022		0.023	
9/10/2021				0.0098		0.027
9/13/2021	0.031					
Mean	0.04901	0.02359	0.022	0.01227	0.02596	0.03483
Std. Dev.	0.01083	0.002686	0.001	0.004566	0.001505	0.004281
Upper Lim.	0.05635	0.02541	0.02268	0.01537	0.0272	0.03773
Lower Lim.	0.04167	0.02177	0.02132	0.009179	0.024	0.03193

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (O)
9/1/2016				0.0162	0.0157	
9/7/2016			0.0194			
12/6/2016						0.0186
12/8/2016			0.0189	0.0247	0.0155	
3/28/2017		0.0363				0.0187
3/30/2017	0.0184				0.0131	
3/31/2017			0.0194	0.0189		
5/12/2017	0.0202	0.0337				
6/15/2017	0.0188	0.03				
7/11/2017		0.0301				0.0174 (J)
7/12/2017	0.0186					
7/13/2017			0.021	0.0165	0.014	
10/24/2017		0.0351				
10/25/2017			0.0196			0.0175
10/26/2017	0.0176			0.0152	0.0117	
2/27/2018		0.0364				0.0172
2/28/2018			0.0171			
3/1/2018	0.0164			0.0164		
3/2/2018					0.0131	
7/11/2018			0.02			
7/12/2018	0.022			0.015	0.013	
11/6/2018		0.035				0.016
11/7/2018			0.017	0.02	0.014	
11/8/2018	0.022					
8/27/2019		0.036				0.017
8/28/2019			0.018			
8/29/2019	0.025			0.018	0.014	
10/15/2019		0.033				
10/16/2019						0.02
10/17/2019			0.018	0.019		
10/18/2019	0.019				0.014	
3/2/2020		0.036				0.018
3/4/2020	0.032		0.015	0.017	0.014	
8/12/2020		0.036		0.016		0.017
8/13/2020	0.027		0.027		0.013	
9/22/2020		0.03	0.016			0.017
9/23/2020				0.014	0.013	
9/24/2020	0.02					
3/1/2021		0.039				
3/2/2021						0.017
3/3/2021	0.019		0.015	0.02	0.014	
9/9/2021	0.021					
9/10/2021		0.032		0.021	0.013	0.015
9/13/2021			0.014			
Mean	0.02113	0.03419	0.01836	0.01786	0.01367	0.01742
Std. Dev.	0.004092	0.002802	0.003153	0.002794	0.001016	0.001247
Upper Lim.	0.0236	0.03617	0.0205	0.01975	0.01436	0.01834
Lower Lim.	0.01844	0.0322	0.01622	0.01597	0.01298	0.01649

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-56
8/30/2016	0.0435	0.0162				
12/6/2016	0.0431	0.0138				
3/28/2017		0.017				
3/29/2017	0.044					
7/11/2017	0.0389	0.0154 (J)				
10/24/2017	0.0369	0.0148				
2/27/2018	0.0346	0.0148				
7/11/2018		0.017				
11/6/2018	0.027	0.015				
8/27/2019		0.016				
8/28/2019	0.025					
10/16/2019	0.027					
10/17/2019		0.015				
3/3/2020	0.026	0.016				
8/11/2020		0.016				
8/12/2020	0.034					
8/17/2020						0.03
9/22/2020		0.015				
9/23/2020	0.025					
9/28/2020						0.026
12/9/2020				0.026	0.027	
12/17/2020			0.022			
1/11/2021			0.024			
1/12/2021				0.022	0.027	
3/2/2021	0.029	0.017				
3/3/2021						0.028
3/4/2021			0.022	0.021		
3/5/2021					0.038	
9/10/2021		0.014	0.02			
9/13/2021	0.019					0.026
9/14/2021				0.021	0.043	
Mean	0.03236	0.01553	0.022	0.0225	0.03375	0.0275
Std. Dev.	0.008048	0.00103	0.001633	0.00238	0.008057	0.001915
Upper Lim.	0.03806	0.01623	0.02571	0.026	0.05204	0.03185
Lower Lim.	0.02666	0.01484	0.01829	0.021	0.01546	0.02315

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83
1/28/2019		0.028				
1/30/2019	0.018		0.016			
9/11/2019	0.023	0.021				
9/12/2019			0.017			
9/18/2019				0.086		
9/23/2019					0.031	
10/21/2019	0.026		0.018		0.03	0.034
10/22/2019		0.021				
10/24/2019				0.1		
8/13/2020	0.026			0.11		
8/14/2020						0.056
8/17/2020					0.024	
9/24/2020	0.025			0.12		
9/25/2020						0.027
9/28/2020					0.023	
3/4/2021				0.11		0.032
3/12/2021	0.027					
9/9/2021	0.021					
9/14/2021		0.026	0.018	0.12	0.022	
9/16/2021						0.03
Mean	0.02371	0.024	0.01725	0.1077	0.026	0.0358
Std. Dev.	0.003251	0.003559	0.0009574	0.01299	0.004183	0.01158
Upper Lim.	0.02758	0.03208	0.01942	0.1255	0.03301	0.05537
Lower Lim.	0.01985	0.01592	0.01508	0.08983	0.01899	0.02029

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
8/17/2020	0.022	
8/19/2020		0.018
9/25/2020	0.021	
9/28/2020		0.017
3/5/2021	0.022	
3/9/2021		0.016 (J)
9/13/2021	0.016	
9/15/2021		0.016
Mean	0.02025	0.01675
Std. Dev.	0.002872	0.0009574
Upper Lim.	0.02418	0.01892
Lower Lim.	-0.01405	0.01458

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0046	<0.0005				
9/1/2016			0.0002 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0006 (J)
12/6/2016	0.0048	<0.0005				
12/7/2016			0.0002 (J)	<0.0005	<0.0005	
12/8/2016						0.0005 (J)
3/29/2017	0.0048	<0.0005	0.0002 (J)			
3/30/2017				7E-05 (J)	<0.0005	0.0006 (J)
7/12/2017	0.0046	<0.0005	0.0002 (J)	<0.0005	<0.0005	0.0005 (J)
10/24/2017	0.0048	<0.0005				
10/25/2017			0.0002 (J)		<0.0005	0.0005 (J)
11/15/2017				<0.0005		
2/27/2018	0.0106	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.0002 (J)		<0.0005	0.00058 (J)
11/6/2018	0.012	<0.003 (J)				
11/7/2018			<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.0005
8/27/2019	0.0092	0.00014 (J)	0.00028 (J)			0.00066 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00049 (J)			
10/15/2019	0.01	0.00012 (J)	0.00016 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00071 (J)
3/2/2020		0.00016 (J)	7.4E-05 (J)			
3/3/2020	0.0085			<0.0005	<0.0005	
3/4/2020						0.00062 (J)
8/11/2020	0.0066	0.00011 (J)	0.00024 (J)			
8/12/2020				7.8E-05 (J)		
8/13/2020					0.00022 (J)	
8/14/2020						0.00064 (J)
9/22/2020		0.00015 (J)	0.00017 (J)			
9/23/2020				6.8E-05 (J)	5.8E-05 (J)	
9/24/2020	0.0077					0.0006 (J)
3/2/2021		0.00014 (J)		7.3E-05 (J)	<0.0005	
3/3/2021			0.00011 (J)			0.00056
3/4/2021	0.0086					
9/9/2021		0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	
9/10/2021	0.0074					
9/13/2021						0.00052
Mean	0.007443	0.0004964	0.0003943	0.0005256	0.0006185	0.0005727
Std. Dev.	0.002492	0.0007432	0.0007051	0.000742	0.0006715	6.808E-05
Upper Lim.	0.009208	0.003	0.00049	0.003	0.003	0.0006188
Lower Lim.	0.005678	0.00013	0.00011	7E-05	0.00022	0.0005265

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/1/2016	0.0019 (J)					
9/2/2016		0.0026 (J)	0.0001 (J)	0.0002 (J)		
12/7/2016	0.0021 (J)	0.0035				
12/8/2016			0.0001 (J)	0.0001 (J)		
3/28/2017						0.0002 (J)
3/29/2017	0.0017 (J)	0.0026 (J)		0.0002 (J)		
3/30/2017			0.0002 (J)		0.0004 (J)	
5/12/2017					0.0004 (J)	0.0002 (J)
6/15/2017					0.0004 (J)	0.0001 (J)
7/11/2017						0.0001 (J)
7/12/2017	0.0018 (J)	0.0025 (J)	0.0001 (J)		0.0004 (J)	
7/13/2017				0.0002 (J)		
10/24/2017						0.0002 (J)
10/25/2017	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)		
10/26/2017					0.0004 (J)	
2/27/2018						<0.0005
2/28/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/1/2018					<0.0005	
7/11/2018	0.002 (J)	0.0026 (J)	0.00016 (J)			
7/12/2018				0.00018 (J)	0.00035 (J)	
11/6/2018						<0.003 (J)
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.003 (J)		
11/8/2018					<0.003 (J)	
8/27/2019						0.00024 (J)
8/28/2019	0.0018 (J)					
8/29/2019		0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)	
10/15/2019						0.00022 (J)
10/16/2019	0.0017 (J)					
10/17/2019		0.0041	0.00015 (J)			
10/18/2019				0.00014 (J)	0.00038 (J)	
3/2/2020						0.00025 (J)
3/3/2020	0.0021 (J)		0.00019 (J)	0.00017 (J)		
3/4/2020		0.0089			0.00077 (J)	
8/11/2020	0.002 (J)					
8/12/2020						0.00024 (J)
8/13/2020		0.0063			0.00041 (J)	
8/14/2020			0.0002 (J)	0.00016 (J)		
9/22/2020	0.002 (J)	0.0027 (J)				0.00019 (J)
9/24/2020			0.00018 (J)	0.00017 (J)	0.00045 (J)	
3/1/2021						0.00027 (J)
3/2/2021	0.0019	0.0057				
3/3/2021			0.00017 (J)	0.00013 (J)	0.0005	
9/9/2021	0.0022		0.00018 (J)		0.0005 (J)	
9/10/2021		0.0024		0.00014 (J)		0.00028 (J)
Mean	0.001907	0.003673	0.000374	0.000376	0.000618	0.0004279
Std. Dev.	0.0004978	0.002056	0.0007325	0.0007316	0.0006665	0.0007463
Upper Lim.	0.0021	0.004866	0.0005	0.0005	0.0005	0.00028
Lower Lim.	0.0017	0.002215	0.0001	0.00014	0.00038	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (J)	0.0045
8/31/2016				0.0054		
9/1/2016		0.0165	0.008			
9/7/2016	0.0021 (J)					
12/6/2016				0.0064	0.0034	0.005
12/8/2016	0.0023 (J)	0.0116	0.0086			
3/28/2017				0.0049		0.0052
3/29/2017					0.0031	
3/30/2017			0.0106			
3/31/2017	0.0025 (J)	0.0112				
7/11/2017				0.005	0.0022 (J)	0.0048
7/13/2017	0.0025 (J)	0.0098	0.0106			
10/24/2017					0.0042	0.0051
10/25/2017	0.0026 (J)			0.0069		
10/26/2017		0.0119	0.0078			
2/27/2018				0.0086	0.0047	0.0057
2/28/2018	<0.0005					
3/1/2018		0.0146				
3/2/2018			0.0096			
7/11/2018	0.0029 (J)					0.0058
7/12/2018		0.013	0.0086			
11/6/2018				0.01	<0.003 (J)	0.006
11/7/2018	0.0031	0.014	0.0078			
8/27/2019				0.01		0.007
8/28/2019	0.0023 (J)				0.0021 (J)	
8/29/2019		0.011	0.0081			
10/16/2019				0.0072	0.0019 (J)	
10/17/2019	0.0027 (J)	0.0093				0.0063
10/18/2019			0.0099			
3/2/2020				0.0098		
3/3/2020					0.0018 (J)	0.0048
3/4/2020	0.0029 (J)	0.01	0.008			
8/11/2020						0.0062
8/12/2020		0.0068		0.0081	0.0018 (J)	
8/13/2020	0.0026 (J)		0.0071			
9/22/2020	0.0013 (J)			0.0081		0.0049
9/23/2020		0.0069	0.0072		0.0015 (J)	
3/2/2021				0.0063	0.0012	0.005
3/3/2021	0.0023	0.0081	0.0068			
9/10/2021		0.009	0.007	0.0075		0.0049
9/13/2021	0.0024				0.0015	
Mean	0.002333	0.01091	0.00838	0.007443	0.002443	0.005413
Std. Dev.	0.0006576	0.002797	0.00126	0.001758	0.00107	0.000712
Upper Lim.	0.002738	0.01281	0.009234	0.008688	0.003201	0.005896
Lower Lim.	0.002049	0.009018	0.007526	0.006197	0.001685	0.004931

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-104D	B-56	B-62	B-63
10/6/2016					9E-05 (J)	
10/7/2016						0.0004 (J)
2/19/2018						0.00049 (J)
1/28/2019						<0.0005
1/30/2019					<0.0005	
9/11/2019					0.00012 (J)	0.00035 (J)
10/21/2019					7.8E-05 (J)	
10/22/2019						0.0003 (J)
8/13/2020					0.00011 (J)	
8/17/2020	0.0004 (J)			0.0013 (J)		
9/24/2020					0.00013 (J)	
9/25/2020	0.00035 (J)					
9/28/2020				0.0012 (J)		
12/9/2020			0.0013 (J)			
12/17/2020		0.0014 (J)				
1/11/2021		0.0013 (J)				
1/12/2021			0.0015 (J)			
3/3/2021				0.0011		
3/4/2021		0.0012	0.0015			
3/8/2021	0.00046 (J)					
3/12/2021					<0.0005	
9/9/2021					0.00014 (J)	
9/10/2021		0.0011				
9/13/2021	0.00053			0.0012		
9/14/2021			0.0011			0.00042 (J)
Mean	0.000435	0.00125	0.00135	0.0012	0.0002085	0.00041
Std. Dev.	7.767E-05	0.0001291	0.0001915	8.165E-05	0.000181	7.797E-05
Upper Lim.	0.0006113	0.001543	0.001785	0.001385	0.0005	0.0004803
Lower Lim.	0.0002587	0.0009569	0.0009153	0.001015	7.8E-05	0.0003037

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-93	B-98
9/18/2019	0.00011 (J)				
9/23/2019		0.0015 (J)			
10/21/2019		0.0011 (J)	0.00039 (J)		
10/24/2019	<0.0005				
12/19/2019				0.0069	
2/17/2020					<0.0005
2/27/2020					<0.0005
8/13/2020	0.00014 (J)				
8/14/2020			0.0007 (J)		
8/17/2020		0.0014 (J)			
8/19/2020				0.015	
9/24/2020	5.3E-05 (J)				
9/25/2020			0.00028 (J)		
9/28/2020		0.0015 (J)		0.015	
3/4/2021	5.7E-05 (J)		0.00037 (J)		
3/9/2021				0.017	
3/15/2021					<0.0005
9/14/2021	<0.0005	0.0017			
9/15/2021				0.015	0.00087
9/16/2021			0.00028 (J)		
Mean	0.0002267	0.00144	0.000404	0.01378	0.0005925
Std. Dev.	0.0002142	0.0002191	0.000173	0.003942	0.000185
Upper Lim.	0.0001464	0.001807	0.0006999	0.01805	0.00087
Lower Lim.	4.658E-05	0.001073	0.0001718	0.006467	0.0005

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0012	<0.0005				
9/1/2016			0.0004 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0003 (J)
12/6/2016	0.0013	<0.0005				
12/7/2016			0.0003 (J)	0.0002 (J)	9E-05 (J)	
12/8/2016						0.0003 (J)
3/29/2017	0.0013	<0.0005	0.0003 (J)			
3/30/2017				8E-05 (J)	9E-05 (J)	0.0003 (J)
7/12/2017	0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	0.0002 (J)
10/24/2017	0.0014	<0.0005				
10/25/2017			0.0004 (J)		<0.0005	0.0002 (J)
11/15/2017				<0.0005		
2/27/2018	0.001	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.00033 (J)		<0.0005	0.00029 (J)
11/6/2018	0.0012	<0.0005				
11/7/2018			<0.001 (J)	<0.0005	<0.001 (J)	<0.0005
8/27/2019	0.00077 (J)	0.00012 (J)	0.00037 (J)			0.00033 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00035 (J)			
10/15/2019	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00029 (J)
3/2/2020		<0.0005	<0.0005			
3/3/2020	0.00095 (J)			<0.0005	0.00012 (J)	
3/4/2020						0.00028 (J)
8/11/2020	0.00071 (J)	<0.0005	0.00038 (J)			
8/12/2020				<0.0005		
8/13/2020					0.00013 (J)	
8/14/2020						0.00029 (J)
9/22/2020		0.00016 (J)	0.00017 (J)			
9/23/2020				<0.0005	<0.0005	
9/24/2020	0.00055 (J)					0.00024 (J)
3/2/2021		0.00013 (J)		<0.0005	<0.0005	
3/3/2021			0.00016 (J)			0.00023 (J)
3/4/2021	0.00088					
9/9/2021		<0.0005	<0.0005	<0.0005	<0.0005	
9/10/2021	0.00061					
9/13/2021						0.00023 (J)
Mean	0.001009	0.0004221	0.0003944	0.0004486	0.0004287	0.0002987
Std. Dev.	0.0002801	0.0001549	0.0001917	0.0001328	0.0002377	9.062E-05
Upper Lim.	0.001207	0.0005	0.0003426	0.0005	0.001	0.00033
Lower Lim.	0.0008102	0.00016	0.0002257	0.0002	0.00012	0.00023

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0004 (J)					
9/2/2016			0.0023	0.0006 (J)	0.0003 (J)	
12/7/2016	0.0004 (J)		0.0023			
12/8/2016				0.0006 (J)	0.0004 (J)	
3/29/2017	0.0004 (J)		0.0021		0.0004 (J)	
3/30/2017		0.0005 (J)		0.0008 (J)		0.0002 (J)
5/11/2017		0.0004 (J)				
5/12/2017						0.0003 (J)
6/15/2017		0.0003 (J)				0.0002 (J)
7/11/2017		0.0003 (J)				
7/12/2017	0.0004 (J)		0.0021	0.0006 (J)		0.0002 (J)
7/13/2017					0.0005 (J)	
10/24/2017		0.0003 (J)				
10/25/2017	0.0004 (J)		0.002	0.0005 (J)	0.0007 (J)	
10/26/2017						0.0003 (J)
2/27/2018		<0.0005				
2/28/2018	<0.0005		0.0018	<0.0005	<0.0005	
3/1/2018						<0.0005
7/11/2018	0.00039 (J)	0.00018 (J)	0.0018	0.00054 (J)		
7/12/2018					0.00091 (J)	0.00028 (J)
11/6/2018		<0.001 (J)				
11/7/2018	<0.001 (J)		0.0018	<0.001 (J)	<0.001 (J)	
11/8/2018						<0.001 (J)
8/27/2019		0.00012 (J)				
8/28/2019	0.00033 (J)					
8/29/2019			0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)
10/16/2019	0.00034 (J)					
10/17/2019		0.00013 (J)	0.0017 (J)	0.0006 (J)		
10/18/2019					0.00056 (J)	0.00022 (J)
3/3/2020	0.00037 (J)	0.00014 (J)		0.00063 (J)	0.00061 (J)	
3/4/2020			0.0026			0.00024 (J)
8/11/2020	0.0003 (J)	<0.0005				
8/13/2020			0.0021 (J)			0.00027 (J)
8/14/2020				0.00054 (J)	0.00057 (J)	
9/22/2020	0.00036 (J)		0.0014 (J)			
9/23/2020		0.00013 (J)				
9/24/2020				0.00073 (J)	0.00058 (J)	0.00018 (J)
3/2/2021	0.00035 (J)	<0.0005	0.0025			
3/3/2021				0.00044 (J)	0.0005	0.00015 (J)
9/9/2021	0.00037 (J)	<0.0005		0.00012 (J)		0.00019 (J)
9/10/2021			0.0012		0.00061	
Mean	0.0004207	0.0003667	0.00198	0.0006047	0.000578	0.0002967
Std. Dev.	0.0001665	0.0002335	0.0003802	0.0002024	0.0001826	0.0002115
Upper Lim.	0.0005	0.0002846	0.002238	0.0007418	0.0007017	0.0003
Lower Lim.	0.00034	0.0001314	0.001722	0.0004675	0.0004543	0.00019

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0019
8/31/2016					0.0002 (J)	
9/1/2016			0.0017	0.0013		
9/7/2016		0.0007 (J)				
12/6/2016					0.0004 (J)	0.0025
12/8/2016		0.0003 (J)	0.0002 (J)	0.0042		
3/28/2017	0.0006 (J)				0.0002 (J)	
3/29/2017						0.0024
3/30/2017				0.0089		
3/31/2017		0.0009 (J)	0.002			
5/12/2017	0.0006 (J)					
6/15/2017	0.0005 (J)					
7/11/2017	0.0006 (J)				0.0003 (J)	0.0021
7/13/2017		0.0008 (J)	0.0017	0.0033		
10/24/2017	0.0007 (J)					0.0029
10/25/2017		0.0005 (J)			0.0006 (J)	
10/26/2017			0.0015	0.0032		
2/27/2018	<0.0005				<0.0005	0.0029
2/28/2018		<0.0005				
3/1/2018			0.0025			
3/2/2018				0.0049		
7/11/2018		0.0024				
7/12/2018			0.0021	0.0032		
11/6/2018	<0.001 (J)				<0.001 (J)	0.0027
11/7/2018		<0.001 (J)	0.0016	0.0031		
8/27/2019	0.00072 (J)				0.00082 (J)	
8/28/2019		0.0015 (J)				0.0022 (J)
8/29/2019			0.0021 (J)	0.003		
10/15/2019	0.00077 (J)					
10/16/2019					0.00069 (J)	0.0022 (J)
10/17/2019		0.00058 (J)	0.0033			
10/18/2019				0.0028		
3/2/2020	0.00088 (J)				0.00089 (J)	
3/3/2020						0.002 (J)
3/4/2020		0.00037 (J)	0.0017 (J)	0.0036		
8/12/2020	0.0008 (J)		0.001 (J)		0.00079 (J)	0.0021 (J)
8/13/2020		0.0013 (J)		0.0028		
9/22/2020	0.00065 (J)	0.0007 (J)			0.00072 (J)	
9/23/2020			0.0013 (J)	0.0025		0.0018 (J)
3/1/2021	0.00085					
3/2/2021					0.00075	0.0017
3/3/2021		0.00038 (J)	0.0016	0.0033		
9/10/2021	0.0009		0.0014	0.0028	0.00093	
9/13/2021		0.00042 (J)				0.002
Mean	0.0007193	0.0008233	0.001713	0.003527	0.0006279	0.002243
Std. Dev.	0.0001538	0.0005572	0.0006896	0.001682	0.0002677	0.0003857
Upper Lim.	0.0008282	0.001109	0.002181	0.0042	0.0008175	0.002516
Lower Lim.	0.0006103	0.0004679	0.001246	0.0025	0.0004382	0.00197

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-102D	B-56	B-63	B-82
8/30/2016	0.0004 (J)					
12/6/2016	0.0005 (J)					
3/28/2017	0.0005 (J)					
7/11/2017	0.0005 (J)					
10/24/2017	0.0006 (J)					
2/27/2018	<0.0005					
7/11/2018	0.00067 (J)					
11/6/2018	<0.001 (J)					
1/28/2019					<0.0005	
8/27/2019	0.00071 (J)					
9/11/2019					<0.0005	
9/23/2019						0.00044 (J)
10/17/2019	0.00064 (J)					
10/21/2019						0.00035 (J)
10/22/2019					0.00014 (J)	
3/3/2020	0.00059 (J)					
8/11/2020	0.00059 (J)					
8/17/2020		0.00059 (J)		0.00029 (J)		0.00058 (J)
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
9/28/2020				0.00024 (J)		0.00066 (J)
12/17/2020			0.00067 (J)			
1/11/2021			0.0008 (J)			
3/2/2021	0.00057					
3/3/2021				0.00026 (J)		
3/4/2021			0.00081			
3/8/2021		0.00027 (J)				
9/10/2021	0.00053		0.00083			
9/13/2021		0.00029 (J)		0.00028 (J)		
9/14/2021					0.00025 (J)	0.0007
Mean	0.0005927	0.000355	0.0007775	0.0002675	0.0003475	0.000546
Std. Dev.	0.0001373	0.000157	7.274E-05	2.217E-05	0.0001817	0.0001479
Upper Lim.	0.0006732	0.00059	0.0009243	0.0003178	0.0003199	0.0007939
Lower Lim.	0.0005032	0.00027	0.0006021	0.0002172	7.013E-05	0.0002981

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
10/21/2019	0.00041 (J)		
8/14/2020	0.00037 (J)		
8/17/2020		0.0018 (J)	
8/19/2020			0.00077 (J)
9/25/2020	0.00026 (J)	0.00022 (J)	
9/28/2020			0.00074 (J)
3/4/2021	0.00032 (J)		
3/5/2021		0.0065	
3/9/2021			0.00075 (J)
9/13/2021		0.0013	
9/15/2021			0.00088
9/16/2021	0.0003 (J)		
Mean	0.000332	0.002455	0.000785
Std. Dev.	5.891E-05	0.002776	6.455E-05
Upper Lim.	0.0004307	0.008758	0.0009316
Lower Lim.	0.0002333	-0.003848	0.0006384

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	<0.005	<0.005				
9/1/2016			<0.005			
9/6/2016				<0.005	<0.005	
9/7/2016						0.0026 (J)
12/6/2016	<0.005	<0.005				
12/7/2016			<0.005	<0.005	<0.005	
12/8/2016						0.0025 (J)
3/29/2017	0.0008 (J)	<0.005	<0.005			
3/30/2017				0.0009 (J)	0.0005 (J)	0.0026 (J)
7/12/2017	0.0006 (J)	<0.005	<0.005	<0.005	<0.005	0.0022 (J)
10/24/2017	0.0007 (J)	<0.005				
10/25/2017			<0.005		<0.005	0.0024 (J)
11/15/2017				<0.005		
2/27/2018	<0.005	<0.005	<0.005			
2/28/2018				<0.005	<0.005	<0.005
7/11/2018			<0.005		<0.005	0.0024 (J)
11/6/2018	<0.005	<0.005				
11/7/2018			<0.005	<0.005	<0.01 (J)	<0.005
8/27/2019	0.00083 (J)	0.0006 (J)	<0.005			0.0031 (J)
8/28/2019				<0.005	<0.005	
9/17/2019			<0.005			
10/15/2019	0.00078 (J)	<0.005	<0.005			
10/16/2019				<0.005		
10/17/2019					0.00058 (J)	
10/18/2019						0.0027 (J)
3/2/2020		0.0006 (J)	<0.005			
3/3/2020	0.00092 (J)			0.00066 (J)	0.00046 (J)	
3/4/2020						0.0035 (J)
8/11/2020	0.00097 (J)	0.00061 (J)	0.00094 (J)			
8/12/2020				0.00074 (J)		
8/13/2020					0.0048 (J)	
8/14/2020						0.0033 (J)
9/22/2020		0.00058 (J)	<0.005			
9/23/2020				0.00059 (J)	<0.005	
9/24/2020	0.001 (J)					0.0029 (J)
3/2/2021		<0.005		<0.005	<0.005	
3/3/2021			0.00099 (J)			0.0028 (J)
3/4/2021	0.0009 (J)					
9/9/2021		<0.005	<0.005	<0.005	<0.005	
9/10/2021	<0.005					
9/13/2021						0.0027 (J)
Mean	0.002321	0.003742	0.004496	0.003778	0.004423	0.003047
Std. Dev.	0.002074	0.002064	0.001378	0.002006	0.002397	0.0008651
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0035
Lower Lim.	0.00078	0.0006	0.00099	0.00074	0.00058	0.0024

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0031 (J)					
9/2/2016			0.0017 (J)	<0.005	0.0012 (J)	
12/7/2016	<0.005		<0.005			
12/8/2016				<0.005	<0.005	
3/29/2017	0.0025 (J)		0.0016 (J)		<0.005	
3/30/2017		0.0005 (J)		0.0005 (J)		0.0012 (J)
5/11/2017		0.0005 (J)				
5/12/2017						0.0004 (J)
6/15/2017		<0.005				0.0005 (J)
7/11/2017		<0.005				
7/12/2017	0.0023 (J)		<0.005	0.0006 (J)		0.0007 (J)
7/13/2017					<0.005	
10/24/2017		<0.005				
10/25/2017	0.0024 (J)		0.0015 (J)	<0.005	<0.005	
10/26/2017						0.0007 (J)
2/27/2018		<0.005				
2/28/2018	<0.005		<0.005	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.0022 (J)	<0.005	<0.005	<0.005		
7/12/2018					<0.005	<0.005
11/6/2018		<0.005				
11/7/2018	<0.01 (J)		<0.01 (J)	<0.005	<0.005	
11/8/2018						<0.005
8/27/2019		0.0004 (J)				
8/28/2019	0.0028 (J)					
8/29/2019			0.0017 (J)	0.00041 (J)	<0.005	<0.005
10/16/2019	0.0024 (J)					
10/17/2019		0.00046 (J)	0.0015 (J)	<0.005		
10/18/2019					<0.005	0.00041 (J)
3/3/2020	0.0028 (J)	<0.005		0.00048 (J)	<0.005	
3/4/2020			0.0032 (J)			0.00081 (J)
8/11/2020	0.0024 (J)	0.00067 (J)				
8/13/2020			0.0023 (J)			0.00085 (J)
8/14/2020				<0.005	<0.005	
9/22/2020	0.003 (J)		0.0013 (J)			
9/23/2020		<0.005				
9/24/2020				0.00096 (J)	<0.005	0.00084 (J)
3/2/2021	0.0024 (J)	0.00064 (J)	0.0022 (J)			
3/3/2021				0.002 (J)	<0.005	0.0014 (J)
9/9/2021	0.003 (J)	<0.005		<0.005		<0.005
9/10/2021			<0.005		<0.005	
Mean	0.00342	0.003211	0.003467	0.00333	0.004747	0.002187
Std. Dev.	0.002022	0.002268	0.002385	0.002148	0.0009812	0.002075
Upper Lim.	0.005	0.005	0.002136	0.005	0.005	0.005
Lower Lim.	0.0023	0.0005	0.001443	0.0005	0.0012	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.005
8/31/2016					<0.005	
9/1/2016			<0.005	<0.005		
9/7/2016		<0.005				
12/6/2016					<0.005	<0.005
12/8/2016		<0.005	<0.005	<0.005		
3/28/2017	0.0005 (J)				<0.005	
3/29/2017						0.0004 (J)
3/30/2017				<0.005		
3/31/2017		0.001 (J)	0.0007 (J)			
5/12/2017	<0.005					
6/15/2017	<0.005					
7/11/2017	<0.005				<0.005	<0.005
7/13/2017		0.0008 (J)	<0.005	0.0007 (J)		
10/24/2017	<0.005					<0.005
10/25/2017		0.0005 (J)			<0.005	
10/26/2017			<0.005	<0.005		
2/27/2018	<0.005				<0.005	<0.005
2/28/2018		<0.005				
3/1/2018			<0.005			
3/2/2018				<0.005		
7/11/2018		<0.005				
7/12/2018			<0.005	<0.005		
11/6/2018	<0.005				<0.005	<0.005
11/7/2018		<0.005	<0.005	<0.005		
8/27/2019	<0.005				<0.005	
8/28/2019		<0.005				<0.005
8/29/2019			<0.005	<0.005		
10/15/2019	<0.005					
10/16/2019					<0.005	0.0013 (J)
10/17/2019		0.00041 (J)	<0.005			
10/18/2019				<0.005		
3/2/2020	<0.005				0.00045 (J)	
3/3/2020						0.00061 (J)
3/4/2020		0.00042 (J)	<0.005	0.0004 (J)		
8/12/2020	<0.005		<0.005		<0.005	0.0028 (J)
8/13/2020		0.0021 (J)		<0.005		
9/22/2020	<0.005	0.001 (J)			<0.005	
9/23/2020			<0.005	<0.005		0.00086 (J)
3/1/2021	<0.005					
3/2/2021					<0.005	0.0015 (J)
3/3/2021		<0.005	<0.005	<0.005		
9/10/2021	<0.005		<0.005	<0.005	<0.005	
9/13/2021		<0.005				<0.005
Mean	0.004679	0.003082	0.004713	0.004407	0.004675	0.003391
Std. Dev.	0.001203	0.002157	0.00111	0.001567	0.001216	0.002002
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0005	0.0007	0.0007	0.00045	0.00086

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-104D	B-56	B-62	B-63
8/30/2016	<0.005					
12/6/2016	<0.005					
3/28/2017	0.001 (J)					
7/11/2017	<0.005					
10/24/2017	<0.005					
2/27/2018	<0.005					
7/11/2018	<0.005					
11/6/2018	<0.005					
1/28/2019						<0.005
1/30/2019					<0.005	
8/27/2019	0.00048 (J)					
9/11/2019					<0.005	<0.005
10/17/2019	0.00051 (J)					
10/21/2019					0.00098 (J)	
10/22/2019						0.00064 (J)
3/3/2020	0.0057 (J)					
8/11/2020	0.00061 (J)					
8/13/2020					<0.005	
8/17/2020		<0.005		0.0014 (J)		
9/22/2020	<0.005					
9/24/2020					<0.005	
9/25/2020		0.00094 (J)				
9/28/2020				<0.005		
12/9/2020			0.0011 (J)			
1/12/2021			<0.005			
3/2/2021	0.00059 (J)					
3/3/2021				0.00059 (J)		
3/4/2021			<0.005			
3/8/2021		0.00057 (J)				
3/12/2021					<0.005	
9/9/2021					<0.005	
9/10/2021	<0.005					
9/13/2021		<0.005		<0.005		
9/14/2021			<0.005			<0.005
Mean	0.003593	0.002877	0.004025	0.002997	0.004426	0.00391
Std. Dev.	0.002173	0.002456	0.00195	0.002336	0.001519	0.00218
Upper Lim.	0.0057	0.001223	0.005	0.001914	0.005	0.005
Lower Lim.	0.00059	0.0003828	0.0011	7.551E-05	0.00098	0.00064

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-88	B-93
9/18/2019	0.00068 (J)			
9/23/2019		0.0011 (J)		
10/21/2019		<0.005		
10/24/2019	<0.005			
8/13/2020	0.0021 (J)			
8/17/2020		<0.005	0.0014 (J)	
8/19/2020				0.00057 (J)
9/24/2020	0.0007 (J)			
9/25/2020			0.00085 (J)	
9/28/2020		<0.005		0.00066 (J)
3/4/2021	0.00098 (J)			
3/5/2021			0.0017 (J)	
3/9/2021				<0.005
9/13/2021			<0.005	
9/14/2021	<0.005	<0.005		
9/15/2021				<0.005
Mean	0.00241	0.00422	0.002237	0.002807
Std. Dev.	0.002072	0.001744	0.001875	0.002532
Upper Lim.	0.001858	0.005	0.002116	0.005
Lower Lim.	0.0005328	0.0011	0.0005176	0.00057

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.193	<0.005				
9/1/2016			0.0021 (J)			
9/6/2016				<0.005	0.0042 (J)	
9/7/2016						0.0247
12/6/2016	0.2	0.0006 (J)				
12/7/2016			0.0026 (J)	<0.005	0.0028 (J)	
12/8/2016						0.029
3/29/2017	0.184	<0.005	0.0026 (J)			
3/30/2017				0.0005 (J)	0.0024 (J)	0.0283
7/12/2017	0.177	<0.005	0.0033 (J)	0.0004 (J)	0.002 (J)	0.023
10/24/2017	0.175	<0.005				
10/25/2017			0.0021 (J)		0.0019 (J)	0.0259
11/15/2017				<0.005		
2/27/2018	0.2	<0.005	<0.005			
2/28/2018				<0.005	<0.005	0.02
7/11/2018			0.002 (J)		0.0018 (J)	0.025
11/6/2018	0.2	<0.005				
11/7/2018			<0.01 (J)	<0.005	0.025	<0.01 (J)
8/27/2019	0.13	0.00076 (J)	0.0021 (J)			0.031
8/28/2019				<0.005	0.0015 (J)	
9/17/2019			0.0079			
10/15/2019	0.17	0.0006 (J)	0.0058			
10/16/2019				<0.005		
10/17/2019					0.0018 (J)	
10/18/2019						0.023
3/2/2020		0.00078 (J)	0.029			
3/3/2020	0.18			<0.005	0.0018 (J)	
3/4/2020						0.023
8/11/2020	0.11	0.00055 (J)	0.006			
8/12/2020				<0.005		
8/13/2020					0.0024 (J)	
8/14/2020						0.026
9/22/2020		0.00098 (J)	0.013			
9/23/2020				0.00038 (J)	0.0018 (J)	
9/24/2020	0.086					0.028
3/2/2021		0.00065 (J)		<0.005	0.0013 (J)	
3/3/2021			0.01			0.016
3/4/2021	0.071					
9/9/2021		0.00081 (J)	0.034	<0.005	0.0016 (J)	
9/10/2021	0.076					
9/13/2021						0.019
Mean	0.1537	0.001481	0.008125	0.002056	0.003653	0.02313
Std. Dev.	0.04866	0.0009221	0.009711	0.0008832	0.005947	0.00641
Upper Lim.	0.1888	0.0025	0.013	0.0025	0.0028	0.02716
Lower Lim.	0.1413	0.0006	0.0021	0.0005	0.0016	0.02022

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0553					
9/2/2016			0.497	0.0085 (J)	0.0102	
12/7/2016	0.0561		0.614			
12/8/2016				0.0095 (J)	0.0079 (J)	
3/29/2017	0.0534		0.443		0.0097 (J)	
3/30/2017		0.0255		0.0076 (J)		<0.005
5/11/2017		0.0284				
5/12/2017						<0.005
6/15/2017		0.0238				0.0003 (J)
7/11/2017		0.0238				
7/12/2017	0.0489		0.538	0.0092 (J)		<0.005
7/13/2017					0.0106	
10/24/2017		0.0292				
10/25/2017	0.0514		0.432	0.0092 (J)	0.0094 (J)	
10/26/2017						<0.005
2/27/2018		0.042				
2/28/2018	0.0511		0.459	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.051	0.02	0.47	0.0097 (J)		
7/12/2018					0.011	<0.005
11/6/2018		0.024				
11/7/2018	0.048		0.42	<0.01 (J)	<0.01 (J)	
11/8/2018						<0.01 (J)
8/27/2019		0.0088				
8/28/2019	0.048					
8/29/2019			0.66	0.01	0.0094	0.00036 (J)
10/16/2019	0.046					
10/17/2019		0.0084	0.57	0.01		
10/18/2019					0.0084	<0.005
3/3/2020	0.054	0.0073		0.01	0.0098	
3/4/2020			0.84			0.00043 (J)
8/11/2020	0.049	0.0064				
8/13/2020			0.73			0.00048 (J)
8/14/2020				0.0098	0.0087	
9/22/2020	0.051		0.47			
9/23/2020		0.0062				
9/24/2020				0.01	0.01	<0.005
3/2/2021	0.051	0.0055	0.77			
3/3/2021				0.0087	0.0078	0.00039 (J)
9/9/2021	0.055	0.0048 (J)		0.0096		0.00049 (J)
9/10/2021			0.45		0.0076	
Mean	0.05128	0.01761	0.5575	0.00862	0.008533	0.00183
Std. Dev.	0.002996	0.01155	0.1355	0.002141	0.002244	0.001357
Upper Lim.	0.05331	0.0284	0.6394	0.009773	0.009945	0.005
Lower Lim.	0.04925	0.0062	0.4659	0.008552	0.007492	0.00039

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0568
8/31/2016					0.055	
9/1/2016			0.536	0.539		
9/7/2016		0.0695				
12/6/2016					0.0432	0.0873
12/8/2016		0.0652	0.381	0.575		
3/28/2017	0.0018 (J)				0.04	
3/29/2017						0.0902
3/30/2017				0.573		
3/31/2017		0.0524	0.354			
5/12/2017	0.0015 (J)					
6/15/2017	0.0015 (J)					
7/11/2017	0.0015 (J)				0.0351 (J)	0.0601
7/13/2017		0.0481	0.396	0.531		
10/24/2017	0.0017 (J)					0.123
10/25/2017		0.0435			0.0209	
10/26/2017			0.383	0.482		
2/27/2018	<0.005				0.024	0.126
2/28/2018		0.0167				
3/1/2018			0.401			
3/2/2018				0.49		
7/11/2018		0.019				
7/12/2018			0.36	0.46		
11/6/2018	<0.01 (J)				0.019	0.077
11/7/2018		0.02	0.35	0.48		
8/27/2019	0.0018 (J)				0.02	
8/28/2019		0.029				0.051
8/29/2019			0.28	0.42		
10/15/2019	0.0018 (J)					
10/16/2019					0.022	0.054
10/17/2019		0.03	0.26			
10/18/2019				0.41		
3/2/2020	0.0021 (J)				0.028	
3/3/2020						0.044
3/4/2020		0.014	0.28	0.42		
8/12/2020	0.0018 (J)		0.21		0.021	0.053
8/13/2020		0.025		0.35		
9/22/2020	0.0014 (J)	0.014			0.02	
9/23/2020			0.17	0.37		0.04
3/1/2021	0.002 (J)					
3/2/2021					0.021	0.033
3/3/2021		0.0087	0.2	0.36		
9/10/2021	0.0019 (J)		0.23	0.36	0.022	
9/13/2021		0.008				0.028
Mean	0.002021	0.03087	0.3194	0.4547	0.02794	0.06596
Std. Dev.	0.000904	0.02013	0.09792	0.07771	0.01109	0.03083
Upper Lim.	0.0021	0.04451	0.3858	0.5073	0.04	0.0878
Lower Lim.	0.0015	0.01723	0.253	0.402	0.02	0.04412

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-102D	B-104D	B-111D	B-56	B-62
8/30/2016	0.0896					
12/6/2016	0.122					
3/28/2017	0.124					
7/11/2017	0.136					
10/24/2017	0.151					
2/27/2018	0.163					
7/11/2018	0.18					
11/6/2018	0.2					
1/30/2019						<0.005
8/27/2019	0.24					
9/11/2019						0.0003 (J)
10/17/2019	0.21					
10/21/2019						0.00031 (J)
3/3/2020	0.2					
8/11/2020	0.22					
8/13/2020						<0.005
8/17/2020					0.042	
9/22/2020	0.16					
9/24/2020						<0.005
9/28/2020					0.042	
12/9/2020			0.17	0.00076 (J)		
12/17/2020		0.014				
1/11/2021		0.015				
1/12/2021			0.19	0.0007 (J)		
3/2/2021	0.18					
3/3/2021					0.05	
3/4/2021		0.014	0.19			
3/5/2021				0.00052 (J)		
3/12/2021						<0.005
9/9/2021						<0.005
9/10/2021	0.21	0.013				
9/13/2021					0.047	
9/14/2021			0.1	<0.005		
Mean	0.1724	0.014	0.1625	0.00112	0.04525	0.001873
Std. Dev.	0.04231	0.0008165	0.04272	0.0009256	0.003948	0.001071
Upper Lim.	0.201	0.01585	0.2361	0.0009228	0.05421	0.0025
Lower Lim.	0.1437	0.01215	-0.01451	0.0004439	0.03629	0.0003

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-82	B-93
1/28/2019	0.053			
1/30/2019		<0.005		
9/11/2019	0.043			
9/12/2019		0.006		
9/23/2019			0.0038 (J)	
10/21/2019		0.0074	0.0089	
10/22/2019	0.046			
12/19/2019				0.066
8/17/2020			0.0028 (J)	
8/19/2020				0.068
9/28/2020			0.0053	0.064
3/9/2021				0.061
3/12/2021	0.046	0.01	0.0021 (J)	
9/14/2021	0.037	0.012	0.0015 (J)	
9/15/2021				0.062
Mean	0.045	0.00758	0.004067	0.0642
Std. Dev.	0.005788	0.003665	0.002721	0.002864
Upper Lim.	0.0547	0.01241	0.007804	0.069
Lower Lim.	0.0353	0.003754	0.0003291	0.0594

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1.08	1.09			0.997 (U)	
9/1/2016			1.11			
9/6/2016				1.32		0.731 (U)
12/6/2016	1.31	0.409 (U)			0.659 (U)	
12/7/2016			2.66	1.76		1.73
3/29/2017	1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017				1.59		0.276 (U)
7/12/2017	0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
10/24/2017	0.838 (U)	0.98 (U)				
10/25/2017			0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017				1.08 (U)		
2/27/2018	1.55	1.14	0.83		0.695 (U)	
2/28/2018				0.721 (U)		1.25
7/10/2018	1.65	0.495 (U)		0.746 (U)		
7/11/2018			0.728 (U)		1.04 (U)	2.13
11/6/2018	1.46	1.41				
11/7/2018			0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019				1.43		1.01 (U)
10/15/2019	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019				1.73	1.04 (U)	
10/17/2019						1.03 (U)
3/2/2020		1.3	1.2 (U)			
3/3/2020	1.69			1.03	1.44	0.293 (U)
8/11/2020	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020				1.63		
8/13/2020						3.58
9/22/2020		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020				0.935 (U)		1.69 (U)
9/24/2020	1.39					
3/2/2021		0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021			1.85			
3/4/2021	1.48					
9/9/2021		1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)
9/10/2021	0.882 (U)					
Mean	1.284	0.9694	0.8984	1.26	0.8972	1.118
Std. Dev.	0.314	0.4467	0.714	0.3303	0.303	0.8748
Upper Lim.	1.497	1.272	1.27	1.484	1.103	1.553
Lower Lim.	1.071	0.6667	0.4013	1.036	0.6919	0.551

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		1.07 (U)				
9/2/2016				1.48	0.908 (U)	1.54
9/7/2016	1.17					
12/7/2016		0.903 (U)		1.26 (U)		
12/8/2016	1.65				1.03 (U)	0.505 (U)
3/29/2017		0.302 (U)		0.373 (U)		0.715 (U)
3/30/2017	0.865 (U)		0.737 (U)		0.884 (U)	
5/11/2017			0.892 (U)			
6/15/2017			0.979 (U)			
7/11/2017			0.871 (U)			
7/12/2017	0.362 (U)	0.283 (U)		0.91 (U)	1.22	
7/13/2017						1.14
10/24/2017			1.19			
10/25/2017	0.401 (U)	0.927 (U)		0.853 (U)	1.07 (U)	1.6
2/27/2018			0.863 (U)			
2/28/2018	1.1 (U)	0.813 (U)		0.727 (U)	1.45	0.918 (U)
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)	1.3	1.59	
7/12/2018						0.981 (U)
11/6/2018			0.664			
11/7/2018	0.795 (U)	1.02		0.746 (U)	1.16	0.832 (U)
8/27/2019	1.12		1.6			
8/28/2019		0.661 (U)				
8/29/2019				0.996 (U)	0.582 (U)	1.87
10/16/2019		1.79				
10/17/2019			1.74	2	0.427 (U)	
10/18/2019	0.89 (U)					1.1 (U)
3/3/2020		0.383 (U)	1.23		0.567 (U)	0.517 (U)
3/4/2020	0.493 (U)			1.67		
8/11/2020		0.723 (U)	1.37			
8/13/2020				1.77		
8/14/2020	0.804 (U)				0.602 (U)	1.83
9/22/2020		0.96 (U)		1.61 (U)		
9/23/2020			1.96 (U)			
9/24/2020	0.369 (U)				0.396 (U)	1.02 (U)
3/2/2021		0.775 (U)	1.54 (U)	1.76		
3/3/2021	0.66 (U)				0.248 (U)	0.547 (U)
9/9/2021		0.239 (U)	1.22 (U)		0.702 (U)	
9/10/2021				0.689 (U)		0.616 (U)
9/13/2021	0.85 (U)					
Mean	0.8113	0.7733	1.168	1.21	0.8557	1.049
Std. Dev.	0.3526	0.3942	0.4067	0.4913	0.3972	0.4659
Upper Lim.	1.05	1.04	1.444	1.543	1.125	1.364
Lower Lim.	0.5723	0.5062	0.8924	0.8767	0.5866	0.733

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						2.49
9/1/2016				4.47	2.37	
9/7/2016			0.876 (U)			
12/6/2016						0.348 (U)
12/8/2016			0.955	2.88	2.87	
3/28/2017		1.36				0.693 (U)
3/30/2017	0.297 (U)				1.71	
3/31/2017			0.102 (U)	1.14		
5/12/2017	0.693 (U)	1.15				
6/15/2017	0.435 (U)	0.765 (U)				
7/11/2017		1.13				1.38
7/12/2017	0.703 (U)					
7/13/2017			1.08 (U)	2.37	1.78	
10/24/2017		1.24				
10/25/2017			1.46			2.06
10/26/2017	0.984 (U)			2.88	3.74	
2/27/2018		1.82				1.97
2/28/2018			0.882 (U)			
3/1/2018	0.743 (U)			2.21		
3/2/2018					2.26	
7/10/2018		1.37				1.03 (U)
7/11/2018			0.924 (U)			
7/12/2018	0.918 (U)			1.73	1.81	
11/6/2018		1.2				1.13
11/7/2018			0.654 (U)	1.72	1.94	
11/8/2018	1.47					
8/27/2019		1.79				1.81
8/28/2019			0.883 (U)			
8/29/2019	2.21			3.05	2.37	
10/15/2019		2.11 (U)				
10/16/2019						1.63
10/17/2019			1.38	2.58		
10/18/2019	1.32				1.42	
3/2/2020		1.99				2.28
3/4/2020	1.39		0.722 (U)	1.68	1.31	
8/12/2020		1.95		2.56		1.13
8/13/2020	1.48 (U)		1.23 (U)		1.74	
9/22/2020		1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020				2.3 (U)	1.51 (U)	
9/24/2020	1.49					
3/1/2021		1.05 (U)				
3/2/2021						0.971 (U)
3/3/2021	1.05 (U)		0.92 (U)	1.27 (U)	1.41	
9/9/2021	1.81					
9/10/2021		1.46		2.32	2.21	1.15
9/13/2021			1.15 (U)			
Mean	1.133	1.454	0.9499	2.344	2.03	1.431
Std. Dev.	0.5259	0.3939	0.3231	0.8249	0.6435	0.6015
Upper Lim.	1.489	1.721	1.169	2.903	2.415	1.839
Lower Lim.	0.7765	1.187	0.7309	1.785	1.602	1.024

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-104D	B-111D	B-56	B-62
8/30/2016	0.919 (U)	1.33				
12/6/2016	0.407 (U)	0.828 (U)				
3/28/2017		1.06				
3/29/2017	0.28 (U)					
7/11/2017	0.209 (U)	0.62 (U)				
10/24/2017	0.615 (U)	1.21				
2/27/2018	1.05 (U)	1.79				
7/10/2018	0.363 (U)					
7/11/2018		1.81				
11/6/2018	0.577 (U)	1.13				
1/30/2019						1.97 (U)
8/27/2019		1.55				
8/28/2019	0.815 (U)					
10/16/2019	0.999 (U)					
10/17/2019		0.702 (U)				
10/21/2019						1.82
3/3/2020	0.481 (U)	1.37				
8/11/2020		0.819 (U)				
8/12/2020	0.721 (U)					
8/13/2020						1.63
8/17/2020					1.15 (U)	
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
9/24/2020						1.28 (U)
9/28/2020					1.39	
12/9/2020			15.2	12.3		
1/12/2021			17	9.63		
3/2/2021	0.751 (U)	1.29 (U)				
3/3/2021					1.01 (U)	
3/4/2021			14.5			
3/5/2021				9.05		
3/12/2021						1.18 (U)
9/9/2021						1.7
9/10/2021		1.28				
9/13/2021	0.916 (U)				0.854 (U)	
9/14/2021			9.6	4.39		
Mean	0.6602	1.196	14.08	8.843	1.101	1.597
Std. Dev.	0.2668	0.3583	3.164	3.288	0.2275	0.3082
Upper Lim.	0.841	1.439	21.26	16.31	1.617	2.02
Lower Lim.	0.4794	0.9531	6.892	1.377	0.5846	1.173

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-93
10/21/2019	0.63 (U)	
8/17/2020	0.662 (U)	
8/19/2020		1.19 (U)
9/28/2020	0.747 (U)	1.54
3/9/2021		0.786 (U)
9/14/2021	1.03 (U)	
9/15/2021		1.84
Mean	0.7673	1.339
Std. Dev.	0.182	0.4544
Upper Lim.	1.18	2.371
Lower Lim.	0.3541	0.3074

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1	0.06 (J)			0.06 (J)	
9/1/2016			0.02 (J)			
9/6/2016				0.17 (J)		0.11 (J)
12/6/2016	1.3	0.06 (J)			0.1 (J)	
12/7/2016			0.16 (J)	0.3		0.11 (J)
3/29/2017	1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017				0.12 (J)		<0.1
7/12/2017	1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
10/24/2017	2.1	<0.1				
10/25/2017			0.6		<0.1	0.26 (J)
11/15/2017	1.4			0.44		
2/27/2018	2.3	<0.1	0.34		<0.1	
2/28/2018				0.18		<0.1
7/11/2018			<0.1		<0.1	<0.1
11/6/2018	2	<0.1				
11/7/2018			<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019	1.7	0.052 (J)	0.065 (J)			
3/13/2019				0.13 (J)	0.042 (J)	
3/14/2019						0.057 (J)
8/27/2019	1.4	<0.1	<0.1		<0.1	
8/28/2019				0.091 (J)		<0.1
10/15/2019	1.4	<0.1	<0.1			
10/16/2019				0.14 (J)	0.052 (J)	
10/17/2019						0.079 (J)
3/2/2020		0.064 (J)	0.071 (J)			
3/3/2020	1.5			0.078 (J)	<0.1	<0.1
8/11/2020	1.4	<0.1	<0.1		<0.1	
8/12/2020				0.051 (J)		
8/13/2020						<0.1
9/22/2020		<0.1	<0.1		<0.1	
9/23/2020				0.058 (J)		<0.1
9/24/2020	0.97					
3/2/2021		<0.1		0.084 (J)	<0.1	<0.1
3/3/2021			0.085 (J)			
3/4/2021	1.8					
9/9/2021		<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1
9/10/2021	2.2					
Mean	1.604	0.0804	0.1588	0.157	0.08588	0.1054
Std. Dev.	0.3955	0.0261	0.1448	0.1093	0.02643	0.04361
Upper Lim.	1.862	0.1	0.1641	0.2134	0.1	0.11
Lower Lim.	1.347	0.052	0.05529	0.08589	0.052	0.079

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
9/2/2016				0.66	0.07 (J)	0.3
9/7/2016	0.32					
12/7/2016		0.37		0.66		
12/8/2016	0.31				0.14 (J)	0.12 (J)
3/29/2017		0.35		0.34		0.11 (J)
3/30/2017	0.1 (J)		0.06 (J)		<0.1	
5/11/2017			0.06 (J)			
6/15/2017			0.07 (J)			
7/11/2017			0.04 (J)			
7/12/2017	0.27 (J)	0.34		0.41	0.04 (J)	
7/13/2017						0.09 (J)
10/24/2017			0.43			
10/25/2017	0.49	0.9		0.68	0.34	0.25 (J)
2/27/2018			0.28			
2/28/2018	0.54	1.2		0.76	<0.1	<0.1
7/11/2018	0.15 (J)	0.37	0.6	1.3	<0.1	
7/12/2018						0.13 (J)
11/6/2018			<0.1			
11/7/2018	<0.3 (J)	<0.3 (J)		<0.3 (J)	<0.1	<0.1
3/12/2019			0.052 (J)			
3/13/2019	0.084 (J)	0.22 (J)		0.45	0.043 (J)	
3/14/2019						0.042 (J)
8/27/2019	0.24 (J)		<0.1			
8/28/2019		0.2				
8/29/2019				0.78	0.079 (J)	0.054 (J)
10/16/2019		0.23 (J)				
10/17/2019			0.042 (J)	0.26 (J)	<0.1	
10/18/2019	0.086 (J)					<0.1
3/3/2020		0.056 (J)	<0.1		<0.1	<0.1
3/4/2020	<0.1			1.5		
8/11/2020		0.2	<0.1			
8/13/2020				0.9		
8/14/2020	0.069 (J)				<0.1	<0.1
9/22/2020		0.084 (J)		0.15		
9/23/2020			<0.1			
9/24/2020	0.056 (J)				<0.1	<0.1
3/2/2021		0.19	<0.1	1.4		
3/3/2021	0.085 (J)				<0.1	<0.1
9/9/2021		0.18	0.053 (J)		<0.1	
9/10/2021				0.25		<0.1
9/13/2021	0.063 (J)					
Mean	0.2039	0.3713	0.1429	0.675	0.107	0.1185
Std. Dev.	0.1552	0.313	0.1586	0.4218	0.06664	0.06532
Upper Lim.	0.2722	0.5135	0.28	0.9494	0.14	0.13
Lower Lim.	0.09774	0.1749	0.052	0.4006	0.07	0.09

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						1
9/1/2016				1.8	1.5	
9/7/2016			0.02 (J)			
12/6/2016						0.76
12/8/2016			0.06 (J)	1.1	1.6	
3/28/2017		0.17 (J)				1.2
3/30/2017	0.12 (J)				0.86	
3/31/2017			<0.1	0.88		
5/12/2017	0.36	<0.1				
6/15/2017	0.21 (J)	0.02 (J)				
7/11/2017		0.02 (J)				0.7
7/12/2017	0.22 (J)					
7/13/2017			<0.1	0.84	1.1	
10/24/2017		<0.1				
10/25/2017			<0.1			1.4
10/26/2017	0.66			1	1.7	
11/15/2017		0.79				
2/27/2018		<0.1				1.3
2/28/2018			<0.1			
3/1/2018	0.18			1.4		
3/2/2018					1.1	
7/11/2018			<0.1			
7/12/2018	0.25 (J)			0.96	0.65	
11/6/2018		<0.1				<0.3 (J)
11/7/2018			<0.1	0.74	0.63	
11/8/2018	<0.3 (J)					
3/12/2019		0.082 (J)				0.31
3/14/2019	0.092 (J)		<0.1	1.6	1.4	
8/27/2019		<0.1				0.32
8/28/2019			<0.1			
8/29/2019	0.095 (J)			0.52	0.78	
10/15/2019		<0.1				
10/16/2019						0.32
10/17/2019			<0.1	0.46		
10/18/2019	0.079 (J)				0.46	
3/2/2020		<0.1				0.33
3/4/2020	0.075 (J)		<0.1	0.74	0.7	
8/12/2020		<0.1		0.22		0.13
8/13/2020	0.1		<0.1		0.47	
9/22/2020		<0.1	<0.1			0.12
9/23/2020				0.11	0.32	
9/24/2020	0.075 (J)					
3/1/2021		<0.1				
3/2/2021						0.15
3/3/2021	0.063 (J)		<0.1	0.71	0.67	
9/9/2021	0.084 (J)					
9/10/2021		<0.1		0.22	0.47	0.16
9/13/2021			<0.1			
Mean	0.1852	0.1364	0.0925	0.8313	0.9006	0.5667
Std. Dev.	0.1558	0.1776	0.02176	0.4835	0.4445	0.4567
Upper Lim.	0.2262	0.17	0.1	1.146	1.19	0.7808
Lower Lim.	0.09243	0.082	0.06	0.5167	0.6114	0.2378

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-62
8/30/2016	0.39	0.78				
12/6/2016	0.47	1.1				
3/28/2017		1.1				
3/29/2017	0.51					
7/11/2017	0.2 (J)	1.1				
10/24/2017	0.82	1.7				
2/27/2018	0.59	1.2				
7/11/2018		1.3				
11/6/2018	0.35	1.1				
1/30/2019						0.43
3/12/2019	0.35	0.97				
8/27/2019		0.68				
8/28/2019	0.098 (J)					
10/16/2019	0.14 (J)					
10/17/2019		1.2				
10/21/2019						0.23 (J)
3/3/2020	<0.1	1.4				
8/11/2020		1.3				
8/12/2020	0.056 (J)					
8/13/2020						0.11
9/22/2020		0.99				
9/23/2020	<0.1					
9/24/2020						0.093 (J)
12/9/2020				0.33	0.33	
12/17/2020			0.079 (J)			
1/11/2021			0.077 (J)			
1/12/2021				0.36	0.32	
3/2/2021	0.059 (J)	0.93				
3/4/2021			0.11	0.43		
3/5/2021					0.51	
3/12/2021						0.11
9/9/2021						0.14
9/10/2021		2	0.083 (J)			
9/13/2021	0.069 (J)					
9/14/2021				0.5	0.57	
Mean	0.2868	1.178	0.08725	0.405	0.4325	0.1855
Std. Dev.	0.2338	0.3265	0.01537	0.07594	0.1266	0.1295
Upper Lim.	0.4095	1.391	0.11	0.5774	0.7199	0.3546
Lower Lim.	0.1193	0.9657	0.077	0.2326	0.1451	0.06003

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-83	B-93
10/21/2019		0.13 (J)	
10/24/2019	0.096 (J)		
8/13/2020	<0.1		
8/14/2020		0.05 (J)	
8/19/2020			0.32
9/24/2020	<0.1		
9/25/2020		<0.1	
9/28/2020			0.3
3/4/2021	<0.1	0.071 (J)	
3/9/2021			0.34
9/14/2021	0.078 (J)		
9/15/2021			0.34
9/16/2021		0.066 (J)	
Mean	0.0948	0.0834	0.325
Std. Dev.	0.00955	0.0317	0.01915
Upper Lim.	0.1	0.1232	0.3685
Lower Lim.	0.078	0.02857	0.2815

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<0.001	<0.001			<0.001	
9/1/2016			<0.001			
9/6/2016				<0.001		<0.001
12/6/2016	<0.001	<0.001			<0.001	
12/7/2016			<0.001	<0.001		0.0002 (J)
3/29/2017	<0.001	<0.001	<0.001		<0.001	
3/30/2017				0.0002 (J)		0.0001 (J)
7/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
10/24/2017	<0.001	<0.001				
10/25/2017			<0.001		<0.001	<0.001
11/15/2017				<0.001		
2/27/2018	<0.001	<0.001	<0.001		<0.001	
2/28/2018				<0.001		<0.001
7/11/2018			<0.001		<0.001	<0.001
11/6/2018	<0.001	<0.001				
11/7/2018			<0.001	<0.001	<0.001	<0.001
8/27/2019	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019				<0.001		5.9E-05 (J)
9/17/2019			<0.001			
10/15/2019	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019				<0.001	<0.001	
10/17/2019						<0.001
3/2/2020		0.00015 (J)	<0.001			
3/3/2020	0.00011 (J)			<0.001	<0.001	<0.001
8/11/2020	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020				<0.001		
8/13/2020						0.0012 (J)
9/22/2020		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020				9.8E-05 (J)		8.2E-05 (J)
9/24/2020	0.00013 (J)					
3/2/2021		<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021			<0.001			
3/4/2021	9.2E-05 (J)					
9/9/2021		<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2021	<0.001					
Mean	0.0006273	0.0006785	0.0008881	0.0008784	0.0008149	0.0007161
Std. Dev.	0.0004481	0.0004481	0.0003057	0.0003097	0.0003834	0.0004487
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0012
Lower Lim.	0.00011	0.0001	0.00011	0.0002	9.6E-05	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
9/2/2016				<0.001	0.0002 (J)	
9/7/2016	<0.001					
12/7/2016		<0.001		<0.001		
12/8/2016	<0.001				<0.001	
3/29/2017		<0.001		<0.001		
3/30/2017	0.0001 (J)		0.0001 (J)		0.0004 (J)	<0.001
5/11/2017			9E-05 (J)			
5/12/2017						<0.001
6/15/2017			0.0001 (J)			<0.001
7/11/2017			<0.001			
7/12/2017	<0.001	<0.001		<0.001	0.0001 (J)	<0.001
10/24/2017			<0.001			
10/25/2017	<0.001	<0.001		<0.001	<0.001	
10/26/2017						<0.001
2/27/2018			<0.001			
2/28/2018	<0.001	<0.001		<0.001	<0.001	
3/1/2018						<0.001
7/11/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
7/12/2018						<0.001
11/6/2018			<0.001			
11/7/2018	<0.001	<0.001		<0.001	<0.001	
11/8/2018						<0.001
8/27/2019	9E-05 (J)		6E-05 (J)			
8/28/2019		0.00026 (J)				
8/29/2019				0.00015 (J)	0.00023 (J)	6.6E-05 (J)
10/16/2019		<0.001				
10/17/2019			8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)	
10/18/2019	7.4E-05 (J)					<0.001
3/3/2020		7E-05 (J)	<0.001		0.00015 (J)	
3/4/2020	0.00013 (J)			0.00068 (J)		<0.001
8/11/2020		5.3E-05 (J)	6.4E-05 (J)			
8/13/2020				0.00044 (J)		<0.001
8/14/2020	0.00017 (J)				<0.001	
9/22/2020		0.00016 (J)		0.00013 (J)		
9/23/2020			9.4E-05 (J)			
9/24/2020	7.9E-05 (J)				0.00014 (J)	<0.001
3/2/2021		4.5E-05 (J)	0.00014 (J)	0.00047 (J)		
3/3/2021	0.00015 (J)				<0.001	<0.001
9/9/2021		<0.001	<0.001		<0.001	<0.001
9/10/2021				<0.001		
9/13/2021	<0.001					
Mean	0.0005862	0.0007059	0.0005156	0.0007311	0.0006177	0.0009377
Std. Dev.	0.0004585	0.0004334	0.0004693	0.0003691	0.0004296	0.0002412
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	7E-05	8.6E-05	0.00015	0.00014	6.6E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					0.0002 (J)	
9/1/2016			0.0005 (J)	0.0008 (J)		
9/7/2016		0.0002 (J)				
12/6/2016					0.0004 (J)	<0.001
12/8/2016		0.0002 (J)	<0.001	0.0019 (J)		
3/28/2017	0.0002 (J)				<0.001	
3/29/2017						0.0001 (J)
3/30/2017				0.0035 (J)		
3/31/2017		0.0004 (J)	0.0009 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	<0.001
7/13/2017		0.0004 (J)	0.0007 (J)	0.002 (J)		
10/24/2017	<0.001					<0.001
10/25/2017		0.0002 (J)			0.0024 (J)	
10/26/2017			0.0009 (J)	0.0022 (J)		
2/27/2018	<0.001				<0.001	<0.001
2/28/2018		<0.001				
3/1/2018			<0.001			
3/2/2018				<0.001		
7/11/2018		0.00052 (J)				
7/12/2018			0.001 (J)	0.0014 (J)		
11/6/2018	<0.001				<0.001	<0.001
11/7/2018		<0.005 (J)	<0.005 (J)	<0.005 (J)		
8/27/2019	4.9E-05 (J)				5.1E-05 (J)	
8/28/2019		0.00036 (J)				8.2E-05 (J)
8/29/2019			0.0006 (J)	0.001 (J)		
10/15/2019	0.0001 (J)					
10/16/2019					8.5E-05 (J)	0.00029 (J)
10/17/2019		0.00026 (J)	0.0011 (J)			
10/18/2019				0.00095 (J)		
3/2/2020	<0.001				5.1E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		0.0001 (J)	0.00088 (J)	0.0012 (J)		
8/12/2020	<0.001		0.0004 (J)		6.3E-05 (J)	0.0007 (J)
8/13/2020		0.0016 (J)		0.00092 (J)		
9/22/2020	<0.001	0.00074 (J)			4.8E-05 (J)	
9/23/2020			0.00053 (J)	0.001 (J)		0.00011 (J)
3/1/2021	0.00012 (J)					
3/2/2021					8E-05 (J)	0.00027 (J)
3/3/2021		0.00024 (J)	0.0007 (J)	0.0011		
9/10/2021	<0.001		<0.001	0.00099 (J)	<0.001	
9/13/2021		<0.001				<0.001
Mean	0.0007478	0.0008147	0.001081	0.001664	0.0005984	0.0006273
Std. Dev.	0.0004149	0.001228	0.001106	0.001169	0.0006777	0.0004132
Upper Lim.	0.001	0.0004678	0.0011	0.0022	0.001	0.001
Lower Lim.	0.00012	0.0001549	0.00053	0.00095	5.1E-05	0.00011

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-102D	B-104D	B-111D	B-56
8/30/2016	<0.001					
12/6/2016	<0.001					
3/28/2017	<0.001					
7/11/2017	<0.001					
10/24/2017	<0.001					
2/27/2018	<0.001					
7/11/2018	<0.001					
11/6/2018	<0.001					
8/27/2019	<0.001					
10/17/2019	<0.001					
3/3/2020	0.00017 (J)					
8/11/2020	<0.001					
8/17/2020		8.8E-05 (J)				0.00022 (J)
9/22/2020	0.00015 (J)					
9/25/2020		0.00021 (J)				
9/28/2020						9.1E-05 (J)
12/9/2020				5.1E-05 (J)	5.8E-05 (J)	
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021				<0.001	5.1E-05 (J)	
3/2/2021	0.00028 (J)					
3/3/2021						0.0001 (J)
3/4/2021			5.9E-05 (J)	<0.001		
3/5/2021					<0.001	
3/8/2021		0.00018 (J)				
9/10/2021	<0.001		<0.001			
9/13/2021		<0.001				<0.001
9/14/2021				<0.001	<0.001	
Mean	0.00084	0.0003695	0.0002865	0.0007628	0.0005273	0.0003528
Std. Dev.	0.0003323	0.0004235	0.0004758	0.0004745	0.0005459	0.0004355
Upper Lim.	0.001	0.0003036	0.001	0.001	0.001	0.0002854
Lower Lim.	0.00028	5.528E-05	3.7E-05	5.1E-05	5.1E-05	3.627E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-82	B-88	B-93
1/28/2019	<0.001			
9/11/2019	4.7E-05 (J)			
9/23/2019		0.00016 (J)		
10/21/2019		<0.001		
10/22/2019	7.3E-05 (J)			
8/17/2020		5.9E-05 (J)	0.00081 (J)	
8/19/2020				0.00012 (J)
9/25/2020			0.00035 (J)	
9/28/2020		0.00011 (J)		0.00012 (J)
3/5/2021			0.012	
3/9/2021				<0.001
9/13/2021			<0.001	
9/14/2021	<0.001	<0.001		
9/15/2021				<0.001
Mean	0.00053	0.0004658	0.00354	0.00056
Std. Dev.	0.0005428	0.000489	0.005647	0.0005081
Upper Lim.	0.001	0.0001911	0.02767	0.001
Lower Lim.	4.7E-05	4.858E-05	4.865E-05	0.00012

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016			<0.03			
9/6/2016				0.0029 (J)		0.0064 (J)
12/6/2016	<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016			<0.03	0.003 (J)		0.0066 (J)
3/29/2017	0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017				0.0035 (J)		0.0061 (J)
7/12/2017	0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
10/24/2017	0.0022 (J)	0.0024 (J)				
10/25/2017			<0.03		0.0032 (J)	0.0061 (J)
11/15/2017				0.0028 (J)		
2/27/2018	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018				<0.03		0.0062 (J)
7/11/2018			<0.03		0.0034 (J)	0.0058 (J)
11/6/2018	<0.03	<0.03				
11/7/2018			<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019				0.0033 (J)		0.0063 (J)
9/17/2019			0.0011 (J)			
10/15/2019	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019				0.0029 (J)	0.0032 (J)	
10/17/2019						0.0064 (J)
3/2/2020		0.0023 (J)	<0.03			
3/3/2020	0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
8/11/2020	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020				0.0034 (J)		
8/13/2020						0.0089 (J)
9/22/2020		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020				0.0033 (J)		0.006 (J)
9/24/2020	0.0049 (J)					
3/2/2021		0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021			<0.03			
3/4/2021	0.0042 (J)					
9/9/2021		0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)
9/10/2021	0.0051 (J)					
Mean	0.005343	0.003186	0.01064	0.004879	0.00472	0.00625
Std. Dev.	0.004279	0.003418	0.006685	0.004297	0.003078	0.0008465
Upper Lim.	0.006793	0.0028	0.015	0.0036	0.0044	0.0066
Lower Lim.	0.002702	0.0019	0.0011	0.0029	0.0032	0.0058

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (J)				
9/2/2016				0.0021 (J)	0.0057 (J)	0.0046 (J)
9/7/2016	<0.03					
12/7/2016		0.0034 (J)		0.005 (J)		
12/8/2016	<0.03				0.0054 (J)	0.0047 (J)
3/29/2017		0.0031 (J)		0.0021 (J)		0.0043 (J)
3/30/2017	<0.03		0.0807		0.0065 (J)	
5/11/2017			0.085			
6/15/2017			0.0781			
7/11/2017			0.0731			
7/12/2017	<0.03	0.0032 (J)		0.0019 (J)	0.0057 (J)	
7/13/2017						0.0044 (J)
10/24/2017			0.0995			
10/25/2017	<0.03	0.0031 (J)		0.0022 (J)	0.006 (J)	0.0042 (J)
2/27/2018			0.0875			
2/28/2018	<0.03	0.0031 (J)		0.0019 (J)	0.0061 (J)	0.0043 (J)
7/11/2018	<0.03	0.0034 (J)	0.033 (J)	0.0022 (J)	0.0057 (J)	
7/12/2018						0.0036 (J)
11/6/2018			<0.03			
11/7/2018	<0.03	<0.03		<0.03	<0.03	<0.03
8/27/2019	0.00089 (J)		0.032			
8/28/2019		0.0032 (J)				
8/29/2019				0.0093 (J)	0.0061 (J)	0.0035 (J)
10/16/2019		0.0026 (J)				
10/17/2019			0.029 (J)	0.0075 (J)	0.0063 (J)	
10/18/2019	0.00096 (J)					0.0041 (J)
3/3/2020		0.0034 (J)	0.026 (J)		0.0065 (J)	0.0046 (J)
3/4/2020	0.0011 (J)			0.019 (J)		
8/11/2020		0.0031 (J)	0.028 (J)			
8/13/2020				0.012 (J)		
8/14/2020	0.0015 (J)				0.0058 (J)	0.0039 (J)
9/22/2020		0.0034 (J)		0.0026 (J)		
9/23/2020			0.022 (J)			
9/24/2020	0.00096 (J)				0.0062 (J)	0.0037 (J)
3/2/2021		0.003 (J)	0.023 (J)	0.011 (J)		
3/3/2021	0.0011 (J)				0.0054 (J)	0.0038 (J)
9/9/2021		0.0035 (J)	0.024 (J)		0.006 (J)	
9/10/2021				0.0023 (J)		0.0039 (J)
9/13/2021	<0.03					
Mean	0.009434	0.003993	0.04906	0.006407	0.00656	0.00484
Std. Dev.	0.007057	0.003053	0.03031	0.005611	0.00236	0.002836
Upper Lim.	0.015	0.0035	0.085	0.012	0.0065	0.0046
Lower Lim.	0.00096	0.003	0.023	0.0021	0.0057	0.0037

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (J)
9/1/2016				0.0854	0.125	
9/7/2016			0.012 (J)			
12/6/2016						0.0046 (J)
12/8/2016			0.0118 (J)	0.0667	0.122	
3/28/2017		0.0031 (J)				0.0028 (J)
3/30/2017	0.0162 (J)				0.144	
3/31/2017			0.0119 (J)	0.0767		
5/12/2017	0.0036 (J)	0.0027 (J)				
6/15/2017	0.0063 (J)	0.0025 (J)				
7/11/2017		0.0022 (J)				0.0031 (J)
7/12/2017	0.0068 (J)					
7/13/2017			0.0116 (J)	0.0743	0.143	
10/24/2017		0.0024 (J)				
10/25/2017			0.0122 (J)			0.0055 (J)
10/26/2017	0.0049 (J)			0.071	0.115	
2/27/2018		0.0027 (J)				0.0066 (J)
2/28/2018			0.0122 (J)			
3/1/2018	0.0759			0.0772		
3/2/2018					0.129	
7/11/2018			0.01 (J)			
7/12/2018	0.0047 (J)			0.073	0.12	
11/6/2018		<0.03				<0.03
11/7/2018			<0.03	0.082	0.12	
11/8/2018	<0.03					
8/27/2019		0.0033 (J)				0.008 (J)
8/28/2019			0.01 (J)			
8/29/2019	0.0017 (J)			0.056	0.11	
10/15/2019		0.0029 (J)				
10/16/2019						0.006 (J)
10/17/2019			0.011 (J)	0.066		
10/18/2019	0.0039 (J)				0.11	
3/2/2020		0.0035 (J)				0.0079 (J)
3/4/2020	0.004 (J)		0.0091 (J)	0.063	0.12	
8/12/2020		0.0031 (J)		0.054		0.0067 (J)
8/13/2020	0.0052 (J)		0.011 (J)		0.098	
9/22/2020		0.0026 (J)	0.0099 (J)			0.0065 (J)
9/23/2020				0.046	0.1	
9/24/2020	0.0045 (J)					
3/1/2021		0.0035 (J)				
3/2/2021						0.0064 (J)
3/3/2021	0.014 (J)		0.0079 (J)	0.049	0.096	
9/9/2021	0.0081 (J)					
9/10/2021		0.0035 (J)		0.053	0.095	0.0071 (J)
9/13/2021			0.015 (J)			
Mean	0.01165	0.003786	0.01137	0.06622	0.1165	0.006343
Std. Dev.	0.01832	0.003256	0.001928	0.01232	0.01544	0.003062
Upper Lim.	0.01279	0.0035	0.01268	0.07457	0.1269	0.008199
Lower Lim.	0.003816	0.0025	0.01007	0.05787	0.106	0.004206

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-102D	B-104D	B-56
8/30/2016	0.005 (J)	0.0212 (J)				
12/6/2016	0.0066 (J)	0.0242 (J)				
3/28/2017		0.0249 (J)				
3/29/2017	0.0059 (J)					
7/11/2017	0.0045 (J)	0.022 (J)				
10/24/2017	0.0072 (J)	0.0281 (J)				
2/27/2018	0.0075 (J)	0.031 (J)				
7/11/2018		0.028 (J)				
11/6/2018	<0.03	<0.03				
8/27/2019		0.031				
8/28/2019	0.0048 (J)					
10/16/2019	0.0045 (J)					
10/17/2019		0.029 (J)				
3/3/2020	0.0052 (J)	0.028 (J)				
8/11/2020		0.032				
8/12/2020	0.0058 (J)					
8/17/2020			0.0013 (J)			0.0056 (J)
9/22/2020		0.025 (J)				
9/23/2020	0.0045 (J)					
9/25/2020			0.0027 (J)			
9/28/2020						0.005 (J)
12/9/2020					0.039 (J)	
12/17/2020				0.012 (J)		
1/11/2021				0.015 (J)		
1/12/2021					0.039	
3/2/2021	0.0046 (J)	0.028 (J)				
3/3/2021						0.0051 (J)
3/4/2021				0.014 (J)	0.038	
3/8/2021			0.0024 (J)			
9/10/2021		0.027 (J)		0.012 (J)		
9/13/2021	0.0034 (J)		0.0022 (J)			0.0055 (J)
9/14/2021					0.036	
Mean	0.006036	0.02629	0.00215	0.01325	0.038	0.0053
Std. Dev.	0.002823	0.004445	0.0006028	0.0015	0.001414	0.0002944
Upper Lim.	0.0072	0.02931	0.003519	0.01666	0.04121	0.005968
Lower Lim.	0.0045	0.02328	0.0007815	0.009844	0.03479	0.004632

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-83	B-93
1/28/2019		<0.03		
1/30/2019	<0.03			
9/11/2019	0.0078 (J)	0.0064 (J)		
10/21/2019	0.0078 (J)		0.003 (J)	
10/22/2019		0.0062 (J)		
8/13/2020	0.0087 (J)			
8/14/2020			0.0045 (J)	
8/19/2020				0.011 (J)
9/24/2020	0.0084 (J)			
9/25/2020			0.0018 (J)	
9/28/2020				0.011 (J)
3/4/2021			0.0024 (J)	
3/9/2021				0.012 (J)
3/12/2021	0.0087 (J)	0.0066 (J)		
9/9/2021	0.0094 (J)			
9/14/2021		0.0064 (J)		
9/15/2021				0.011 (J)
9/16/2021			0.0021 (J)	
Mean	0.0094	0.00812	0.00276	0.01125
Std. Dev.	0.002532	0.003849	0.001069	0.0005
Upper Lim.	0.015	0.015	0.004551	0.012
Lower Lim.	0.0078	0.0062	0.0009685	0.011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
Mean	0.0001658	0.0001707	0.0001541	0.0001829	0.0001727	0.0001907
Std. Dev.	5.628E-05	5.85E-05	6.456E-05	4.375E-05	5.688E-05	3.615E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8.1E-05	8E-05	8E-05	9E-05	8E-05	6E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
Mean	0.0001404	0.000172	0.0002049	0.0001767	0.000158	0.0001677
Std. Dev.	6.361E-05	5.882E-05	0.0001304	4.835E-05	6.327E-05	5.729E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	6E-05	9E-05	8.3E-05	9E-05	6E-05	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
Mean	0.0001853	0.0002059	0.0001893	0.0001907	0.0001924	0.0001494
Std. Dev.	5.73E-05	0.0001192	4.131E-05	3.615E-05	0.0001175	6.312E-05
Upper Lim.	0.0002053	0.00059	0.0002	0.0002	0.0002402	0.0002
Lower Lim.	0.0001241	0.00013	4E-05	6E-05	0.0001202	7.9E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-104D	B-111D	B-56	B-82	B-88
8/30/2016	<0.0002					
12/6/2016	5E-05 (J)					
3/28/2017	<0.0002					
7/11/2017	<0.0002					
10/24/2017	<0.0002					
2/27/2018	4.2E-05 (J)					
7/11/2018	<0.0002					
11/6/2018	<0.0002					
8/27/2019	0.00021 (J)					
9/23/2019					<0.0002	
10/17/2019	0.00042 (J)					
10/21/2019					<0.0002	
3/3/2020	<0.0002					
8/11/2020	0.00026					
8/17/2020				0.00016 (J)	0.00011 (J)	0.00011 (J)
9/22/2020	0.00013 (J)					
9/25/2020						<0.0002
9/28/2020				<0.0002	<0.0002	
12/9/2020		7.9E-05 (J)	9.4E-05 (J)			
1/12/2021		<0.0002	<0.0002			
3/2/2021	0.00017 (J)					
3/3/2021				<0.0002		
3/4/2021		<0.0002				
3/5/2021			<0.0002			0.0001 (J)
9/10/2021	0.00014 (J)					
9/13/2021				<0.0002		<0.0002
9/14/2021		<0.0002	<0.0002		<0.0002	
Mean	0.0001881	0.0001697	0.0001735	0.00019	0.000182	0.0001525
Std. Dev.	8.736E-05	6.05E-05	5.3E-05	2E-05	4.025E-05	5.5E-05
Upper Lim.	0.00021	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	7.9E-05	9.4E-05	0.00016	0.00011	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.00026
9/28/2020	0.00024 (J)
3/9/2021	0.00015 (J)
9/15/2021	9.8E-05 (J)
Mean	0.000187
Std. Dev.	7.622E-05
Upper Lim.	0.00036
Lower Lim.	1.396E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-104D	B-111D
9/6/2016	0.0371					
12/7/2016	0.0273					
3/28/2017				0.008 (J)		
3/30/2017	0.03	0.0009 (J)	0.0084 (J)			
5/11/2017		0.0009 (J)				
5/12/2017			0.0085 (J)	0.0062 (J)		
6/15/2017		<0.01	0.0104	0.0044 (J)		
7/11/2017		<0.01		0.0041 (J)		
7/12/2017	0.0323		0.0092 (J)			
10/24/2017		<0.01		0.0072 (J)		
10/26/2017			0.0077 (J)			
11/15/2017	0.0275					
2/27/2018		<0.01		0.0069 (J)		
2/28/2018	0.0093 (J)					
3/1/2018			0.0045 (J)			
7/11/2018		<0.01				
7/12/2018			0.012			
11/6/2018		<0.01		<0.01 (J)		
11/7/2018	0.018					
11/8/2018			0.012			
8/27/2019		0.002 (J)		0.0065 (J)		
8/28/2019	0.015					
8/29/2019			0.014			
10/15/2019				0.0061 (J)		
10/16/2019	0.014					
10/17/2019		0.0018 (J)				
10/18/2019			0.0091 (J)			
3/2/2020				0.0059 (J)		
3/3/2020	0.018	0.0022 (J)				
3/4/2020			0.0047 (J)			
8/11/2020		0.002 (J)				
8/12/2020	0.012			0.0057 (J)		
8/13/2020			0.013			
9/22/2020				0.0028 (J)		
9/23/2020	0.012	0.0022 (J)				
9/24/2020			0.0088 (J)			
12/9/2020				0.0012 (J)	0.0055 (J)	
1/12/2021				<0.01	0.0054 (J)	
3/1/2021				0.0051 (J)		
3/2/2021	0.011	0.0021 (J)				
3/3/2021			0.0026 (J)			
3/4/2021				<0.01		
3/5/2021					0.0067 (J)	
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		
9/14/2021				<0.01	0.013	
Mean	0.01961	0.005093	0.008993	0.006007	0.0078	0.00765
Std. Dev.	0.009301	0.004167	0.003208	0.001765	0.0044	0.003615
Upper Lim.	0.0262	0.01	0.01117	0.007258	0.01	0.01817
Lower Lim.	0.01302	0.0018	0.00682	0.004757	0.0012	0.002799

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-66	B-88
1/30/2019	<0.01	
9/12/2019	0.0018 (J)	
10/21/2019	0.0015 (J)	
8/17/2020		0.0012 (J)
9/25/2020		0.0012 (J)
3/5/2021		<0.01
9/13/2021		<0.01
9/14/2021	<0.01	
Mean	0.005825	0.0056
Std. Dev.	0.004822	0.005081
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0012

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016	0.0366			0.0016 (J)		
9/1/2016		0.0017 (J)				
9/6/2016			0.0011 (J)		<0.005	
9/7/2016						0.007 (J)
12/6/2016	0.0026 (J)			<0.005		
12/7/2016		<0.005	0.0015 (J)		<0.005	
12/8/2016						0.0087 (J)
3/29/2017	0.0286	0.0017 (J)		<0.005		
3/30/2017			0.0015 (J)		<0.005	0.0099 (J)
7/12/2017	0.0257	0.0019 (J)	<0.005	<0.005	<0.005	0.0072 (J)
10/24/2017	0.0281					
10/25/2017		0.0024 (J)		<0.005	<0.005	0.0078 (J)
11/15/2017			0.0019 (J)			
2/27/2018	0.0667	<0.005		<0.005		
2/28/2018			<0.005		<0.005	<0.005
7/11/2018		<0.005		0.002 (J)	<0.005	0.007 (J)
11/6/2018	0.049					
11/7/2018		<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.005
8/27/2019	0.015	<0.005		<0.005		0.0073 (J)
8/28/2019			0.0039 (J)		<0.005	
9/17/2019		0.0014 (J)				
10/15/2019	0.071	0.0019 (J)				
10/16/2019			0.0031 (J)	0.0017 (J)		
10/17/2019					<0.005	
10/18/2019						0.0093 (J)
3/2/2020		<0.005				
3/3/2020	0.021		0.0062 (J)	0.0014 (J)	<0.005	
3/4/2020						0.0074 (J)
8/11/2020	0.023	0.0019 (J)		<0.005		
8/12/2020			0.0038 (J)			
8/13/2020					0.0018 (J)	
8/14/2020						0.0084 (J)
9/22/2020		<0.005		<0.005		
9/23/2020			0.0053 (J)		<0.005	
9/24/2020	0.074					0.015
3/2/2021			0.006	<0.005	<0.005	
3/3/2021		<0.005				0.0072
3/4/2021	0.05					
9/9/2021		<0.005	0.006	0.0017 (J)	<0.005	
9/10/2021	0.034					
9/13/2021						0.0071
Mean	0.03752	0.003931	0.004307	0.004227	0.00512	0.007953
Std. Dev.	0.0217	0.002266	0.00244	0.002257	0.001582	0.002359
Upper Lim.	0.05289	0.005	0.004442	0.01	0.01	0.009189
Lower Lim.	0.02215	0.0017	0.0019	0.0017	0.0018	0.006423

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
9/1/2016	0.0093 (J)					0.0217
9/2/2016			0.0671	<0.005		
12/7/2016	<0.005		0.0056 (J)			
12/8/2016				<0.005		0.017
3/28/2017					<0.005	
3/29/2017	0.0071 (J)		0.0521	<0.005		
3/30/2017		<0.005				
3/31/2017						0.0133
5/11/2017		<0.005				
5/12/2017					<0.005	
6/15/2017		<0.005			<0.005	
7/11/2017		<0.005			<0.005	
7/12/2017	0.0065 (J)		0.0483			
7/13/2017				<0.005		0.0068 (J)
10/24/2017		<0.005			<0.005	
10/25/2017	0.0087 (J)		0.0506	<0.005		
10/26/2017						0.0097 (J)
2/27/2018		<0.005			<0.005	
2/28/2018	0.0114		0.0755	<0.005		
3/1/2018						0.0124
7/11/2018	0.0036 (J)	0.0045 (J)	0.022			
7/12/2018				0.0017 (J)		0.015
11/6/2018		<0.01 (J)			<0.005	
11/7/2018	<0.01 (J)		0.044	<0.005		<0.01 (J)
8/27/2019		0.0069 (J)			<0.005	
8/28/2019	0.004 (J)					
8/29/2019			0.029	<0.005		0.004 (J)
10/15/2019					0.0014 (J)	
10/16/2019	0.006 (J)					
10/17/2019		0.0051 (J)	0.071			0.0062 (J)
10/18/2019				<0.005		
3/2/2020					<0.005	
3/3/2020	0.0066 (J)	0.0047 (J)		<0.005		
3/4/2020			0.071			0.0065 (J)
8/11/2020	0.0096 (J)	0.0053 (J)				
8/12/2020					<0.005	0.002 (J)
8/13/2020			0.091			
8/14/2020				<0.005		
9/22/2020	0.0052 (J)		0.023		<0.005	
9/23/2020		0.0046 (J)				<0.005
9/24/2020				<0.005		
3/1/2021					<0.005	
3/2/2021	0.0091	0.0037 (J)	0.078			
3/3/2021				<0.005		0.0039 (J)
9/9/2021	0.0083	0.0031 (J)				
9/10/2021			0.031	<0.005	<0.005	0.0035 (J)
Mean	0.00736	0.005193	0.05061	0.00478	0.004743	0.009133
Std. Dev.	0.00234	0.001557	0.02481	0.0008521	0.0009621	0.005718
Upper Lim.	0.008946	0.0053	0.06742	0.005	0.005	0.01301
Lower Lim.	0.005774	0.0045	0.0338	0.0017	0.0014	0.005259

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-104D
8/30/2016			0.0032 (J)	0.0833		
8/31/2016		0.0182				
9/1/2016	0.0084 (J)					
12/6/2016		0.012	<0.005	0.0065 (J)		
12/8/2016	0.0084 (J)					
3/28/2017		0.168		0.0954		
3/29/2017			0.0048 (J)			
3/30/2017	0.0079 (J)					
7/11/2017		0.0607	0.0031 (J)	0.0561		
7/13/2017	0.0062 (J)					
10/24/2017			0.0069 (J)	0.0653		
10/25/2017		0.034				
10/26/2017	0.0058 (J)					
2/27/2018		0.0348	<0.005	0.13		
3/2/2018	<0.005					
7/11/2018				0.045		
7/12/2018	0.013					
11/6/2018		<0.01 (J)	<0.01 (J)	0.12		
11/7/2018	<0.01 (J)					
8/27/2019		0.0031 (J)		0.067		
8/28/2019			<0.005			
8/29/2019	0.0023 (J)					
10/16/2019		0.015	0.0016 (J)			
10/17/2019				0.19		
10/18/2019	0.005 (J)					
3/2/2020		0.032				
3/3/2020			0.0018 (J)	0.046		
3/4/2020	0.0061 (J)					
8/11/2020				0.11		
8/12/2020		0.011	<0.005			
8/13/2020	0.0029 (J)					
8/17/2020					<0.005	
9/22/2020		0.04		0.23		
9/23/2020	0.0016 (J)		0.0028 (J)			
9/25/2020					<0.005	
12/9/2020						<0.005
1/12/2021						0.0016 (J)
3/2/2021		0.0081	<0.005	0.07		
3/3/2021	0.0025 (J)					
3/4/2021						0.0031 (J)
3/8/2021					0.0019 (J)	
9/10/2021	0.0022 (J)	0.0099		0.057		
9/13/2021			<0.005		<0.005	
9/14/2021						<0.005
Mean	0.00582	0.03263	0.004586	0.09144	0.004225	0.003675
Std. Dev.	0.003285	0.04214	0.002144	0.0581	0.00155	0.001648
Upper Lim.	0.008046	0.0457	0.00408	0.1308	0.005	0.004053
Lower Lim.	0.003594	0.00964	0.002153	0.05207	0.0019	0.0006472

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-77	B-82	B-83	B-88
9/18/2019			<0.005			
9/23/2019				<0.005		
10/21/2019				0.0016 (J)	0.0082 (J)	
10/24/2019			<0.005			
8/13/2020			<0.005			
8/14/2020					0.015	
8/17/2020		0.011		<0.005		0.0017 (J)
9/24/2020			<0.005			
9/25/2020					0.019	0.0033 (J)
9/28/2020		0.029		0.0021 (J)		
12/9/2020	<0.005					
1/12/2021	<0.005					
3/3/2021		0.013				
3/4/2021			0.0017 (J)		0.024	
3/5/2021	0.0022 (J)					0.0033 (J)
9/13/2021		0.011				0.0021 (J)
9/14/2021	<0.005		<0.005	<0.005		
9/16/2021					0.025	
Mean	0.0043	0.016	0.00445	0.00374	0.01824	0.0026
Std. Dev.	0.0014	0.008718	0.001347	0.001734	0.006906	0.0008246
Upper Lim.	0.005	0.029	0.005	0.005	0.02981	0.004472
Lower Lim.	0.0022	0.011	0.0017	0.0016	0.006668	0.0007278

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22
8/31/2016	0.0004 (J)					
9/1/2016		<0.001		0.0005 (J)		
9/2/2016					<0.001	<0.001
9/7/2016			<0.001			
12/6/2016	0.0004 (J)					
12/7/2016		<0.001		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.001			<0.001
3/29/2017	0.0006 (J)	8E-05 (J)		0.0004 (J)	0.0006 (J)	6E-05 (J)
3/30/2017			0.0002 (J)			
7/12/2017	0.0005 (J)	9E-05 (J)	0.0002 (J)	0.0005 (J)	0.0006 (J)	
7/13/2017						7E-05 (J)
10/24/2017	0.0004 (J)					
10/25/2017		9E-05 (J)	0.0002 (J)	0.0004 (J)	0.0005 (J)	7E-05 (J)
2/27/2018	<0.001	<0.001				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.001	<0.001
7/11/2018		<0.001	0.00017 (J)	0.0005 (J)	<0.001	
7/12/2018						<0.001
11/6/2018	<0.001 (J)					
11/7/2018		<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001
8/27/2019	0.00036 (J)	8.9E-05 (J)	0.00018 (J)			
8/28/2019				0.00053 (J)		
8/29/2019					0.00084 (J)	6.4E-05 (J)
9/17/2019		9.7E-05 (J)				
10/15/2019	0.00039 (J)	9.1E-05 (J)				
10/16/2019				0.00053 (J)		
10/17/2019					0.00062 (J)	
10/18/2019			0.00014 (J)			<0.001
3/2/2020		0.00013 (J)				
3/3/2020	0.00042 (J)			0.0006 (J)		7E-05 (J)
3/4/2020			0.00019 (J)		0.0023 (J)	
8/11/2020	0.00037 (J)	<0.001		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.001
9/22/2020		<0.001		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.001
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.001	0.00017 (J)			<0.001
3/4/2021	0.00042 (J)					
9/9/2021		<0.001		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.001
9/13/2021			<0.001			
Mean	0.0004907	0.0006042	0.000398	0.000544	0.000942	0.0006889
Std. Dev.	0.0002285	0.0004636	0.0003761	0.0001384	0.0004995	0.0004554
Upper Lim.	0.0006	0.001	0.001	0.00059	0.000988	0.001
Lower Lim.	0.00036	9E-05	0.00017	0.00049	0.0005219	6.4E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					<0.001	
9/1/2016			0.0002 (J)	<0.001		
9/7/2016		<0.001				
12/6/2016					<0.001	<0.001
12/8/2016		<0.001	<0.001	<0.001		
3/28/2017	<0.001				0.0002 (J)	
3/29/2017						0.0002 (J)
3/30/2017				9E-05 (J)		
3/31/2017		9E-05 (J)	0.0002 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.001					0.0003 (J)
10/25/2017		9E-05 (J)			<0.001	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.001				<0.001	0.00033 (J)
2/28/2018		<0.001				
3/1/2018			0.00032 (J)			
3/2/2018				<0.001		
7/11/2018		<0.001				
7/12/2018			0.00031 (J)	<0.001		
11/6/2018	<0.001				<0.001	<0.001 (J)
11/7/2018		<0.001	<0.001 (J)	<0.001		
8/27/2019	<0.001				<0.001	
8/28/2019		6.9E-05 (J)				0.00022 (J)
8/29/2019			0.00025 (J)	7.8E-05 (J)		
10/15/2019	7.3E-05 (J)					
10/16/2019					7.8E-05 (J)	0.00025 (J)
10/17/2019		<0.001	0.00025 (J)			
10/18/2019				<0.001		
3/2/2020	<0.001				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.001	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020		<0.001		<0.001		
9/22/2020	<0.001	<0.001			<0.001	
9/23/2020			0.00026 (J)	<0.001		0.0002 (J)
3/1/2021	<0.001					
3/2/2021					<0.001	0.00019 (J)
3/3/2021		<0.001	0.00023 (J)	<0.001		
9/10/2021	<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021		<0.001				0.00019 (J)
Mean	0.0009338	0.0007559	0.0003513	0.0006937	0.00081	0.0003886
Std. Dev.	0.0002478	0.000419	0.0002684	0.0004484	0.0003787	0.0003356
Upper Lim.	0.001	0.001	0.00036	0.001	0.001	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

Confidence Interval

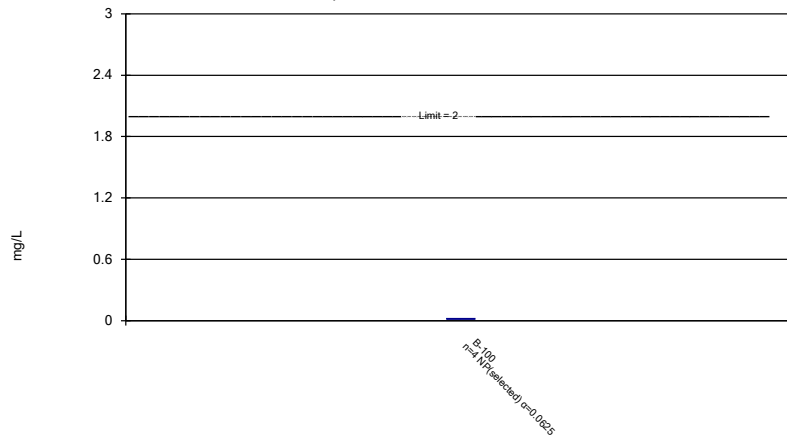
Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-56	B-82	B-83	B-88
8/30/2016	<0.001				
12/6/2016	0.0006 (J)				
3/28/2017	0.0007 (J)				
7/11/2017	0.0007 (J)				
10/24/2017	0.0006 (J)				
2/27/2018	0.00038 (J)				
7/11/2018	<0.001				
11/6/2018	<0.001				
8/27/2019	0.00053 (J)				
9/23/2019			9.9E-05 (J)		
10/17/2019	0.00076 (J)				
10/21/2019			0.00011 (J)	7.2E-05 (J)	
3/3/2020	0.00044 (J)				
8/11/2020	<0.001				
8/14/2020				<0.001	
8/17/2020		0.00016 (J)	<0.001		<0.001
9/22/2020	0.00043 (J)				
9/25/2020				<0.001	<0.001
9/28/2020		0.00023 (J)	<0.001		
3/2/2021	<0.001				
3/3/2021		0.00026 (J)			
3/4/2021				<0.001	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.001
9/14/2021			<0.001		
9/16/2021				<0.001	
Mean	0.0007027	0.0002225	0.0006418	0.0008144	0.0008
Std. Dev.	0.0002443	4.349E-05	0.0004905	0.000415	0.0004
Upper Lim.	0.001	0.0003212	0.001	0.001	0.001
Lower Lim.	0.00043	0.0001238	9.9E-05	7.2E-05	0.0002

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

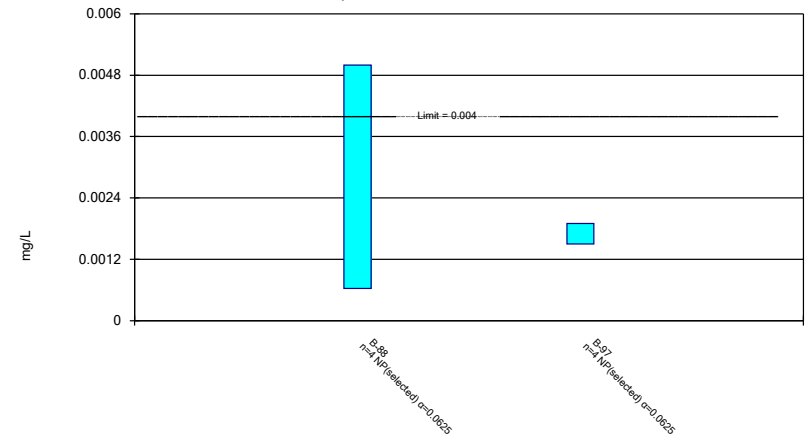


Normality testing disabled.

Constituent: Barium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

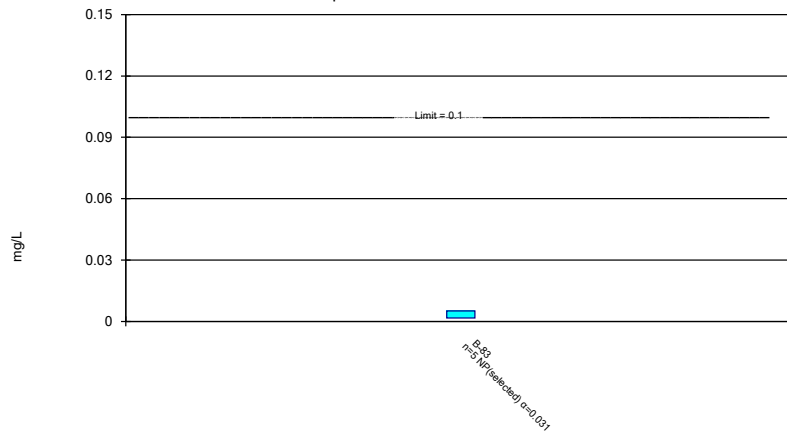


Normality testing disabled.

Constituent: Beryllium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametri
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

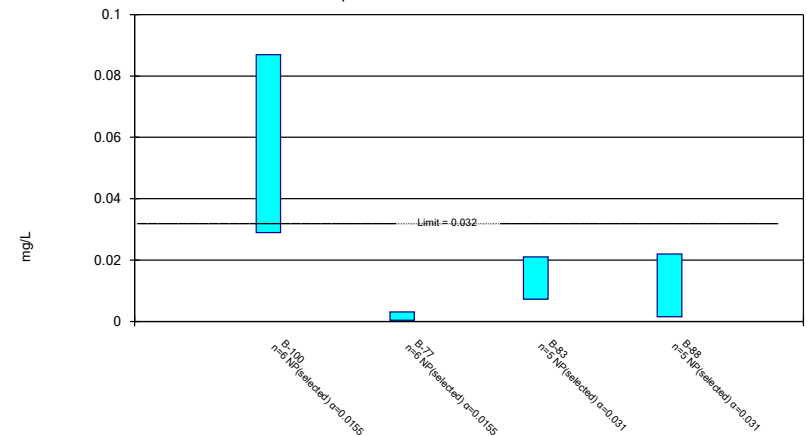


Normality testing disabled.

Constituent: Chromium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametr
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

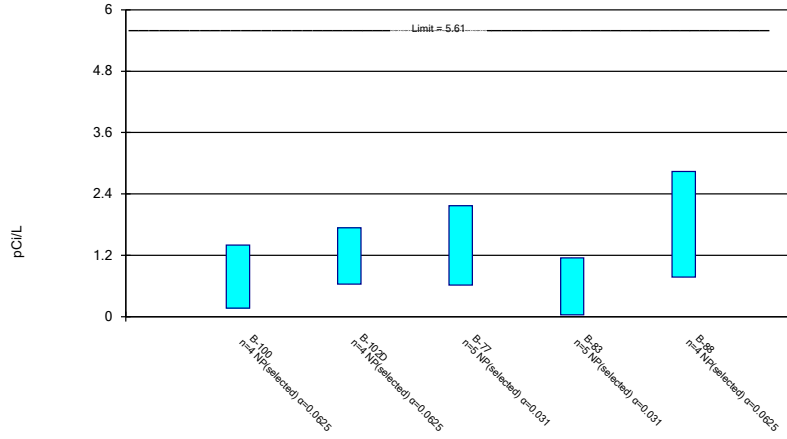
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

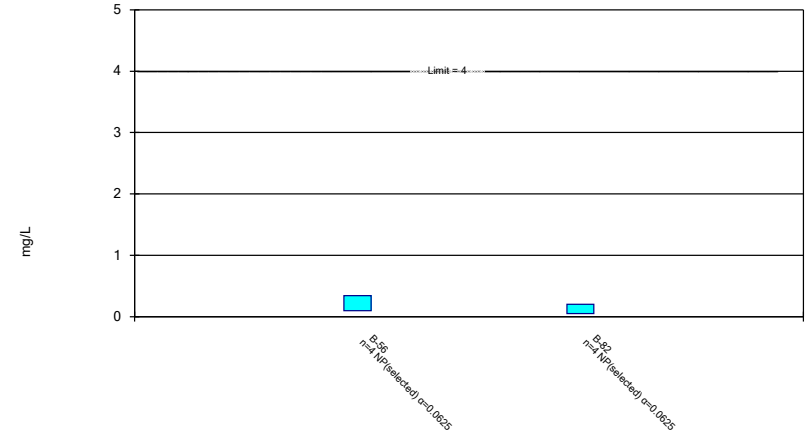
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

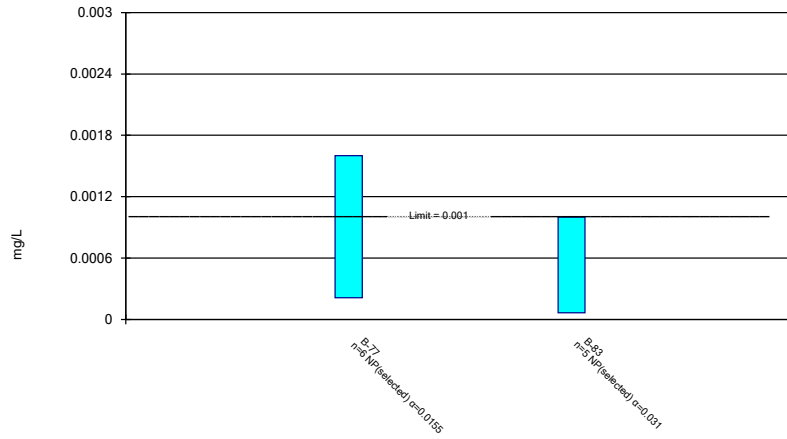
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Fluoride, total Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonpara
Plant McDonough Client: Southern Company Data: McDonough AP

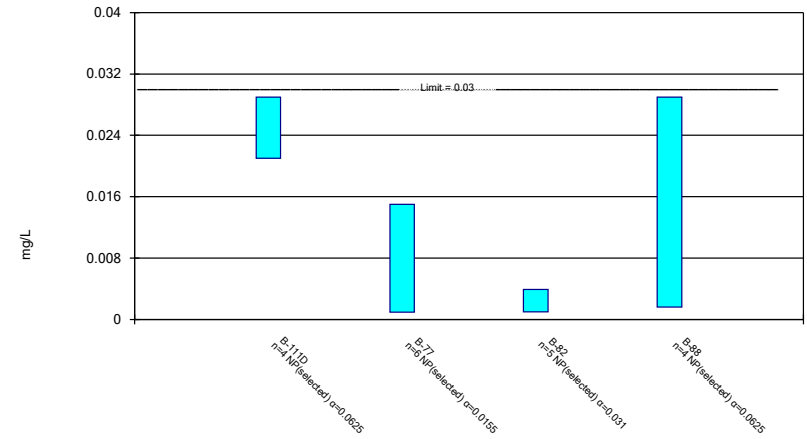
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Lead Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.

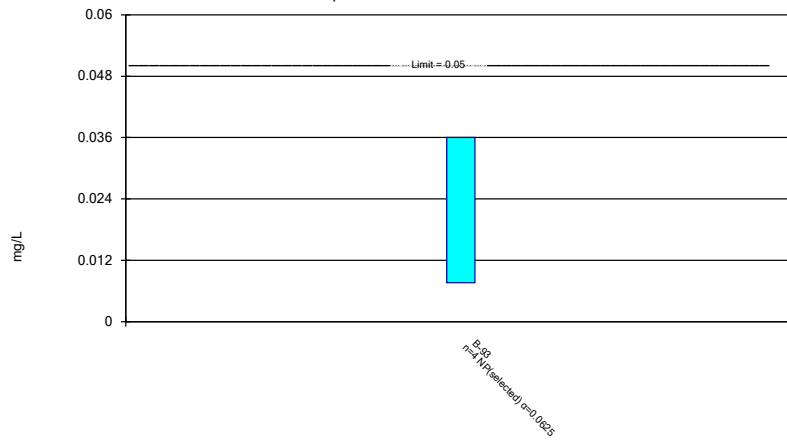


Normality testing disabled.

Constituent: Lithium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Selenium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametri
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-100
8/17/2020	0.015
9/25/2020	0.022
3/8/2021	0.022
9/13/2021	0.021
Mean	0.02
Std. Dev.	0.003367
Upper Lim.	0.022
Lower Lim.	0.015

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-97
2/17/2020		<0.003
2/27/2020		0.0019 (J)
8/17/2020	0.0014 (J)	
9/25/2020	0.00063 (J)	
3/5/2021	0.005	
3/9/2021		0.0019
9/13/2021	0.001	
9/15/2021		0.0016
Mean	0.002008	0.001725
Std. Dev.	0.00202	0.0002062
Upper Lim.	0.005	0.0019
Lower Lim.	0.00063	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83
10/21/2019	0.0017 (J)
8/14/2020	0.005 (J)
9/25/2020	0.0051 (J)
3/4/2021	0.0049 (J)
9/16/2021	0.003 (J)
Mean	0.00394
Std. Dev.	0.001524
Upper Lim.	0.0051
Lower Lim.	0.0017

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-77	B-83	B-88
9/18/2019		0.0031 (J)		
10/21/2019			0.018	
10/24/2019		0.0021 (J)		
11/22/2019				0.018 (J)
7/23/2020	0.086			
8/3/2020	0.087			
8/13/2020		0.0011 (J)		
8/14/2020			0.021	
8/17/2020	0.077			0.0031 (J)
9/24/2020		0.0004 (J)		
9/25/2020	0.034		0.0073	0.0015 (J)
3/4/2021		0.0017 (J)	0.0099	
3/5/2021				0.022
3/8/2021	0.029			
9/13/2021	0.035			0.0018 (J)
9/14/2021		<0.005		
9/16/2021			0.011	
Mean	0.058	0.001817	0.01344	0.00928
Std. Dev.	0.02804	0.0009725	0.005791	0.009906
Upper Lim.	0.087	0.0031	0.021	0.022
Lower Lim.	0.029	0.0004	0.0073	0.0015

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-77	B-83	B-88
10/21/2019				0.792 (U)	
10/24/2019			1.87		
8/13/2020			2.17		
8/14/2020				0.95 (U)	
8/17/2020	1.4 (U)				2.47
9/24/2020			0.761 (U)		
9/25/2020	0.799 (U)			0.0359 (U)	0.925 (U)
12/17/2020		1.22 (U)			
1/11/2021		0.635 (U)			
3/4/2021		0.789 (U)	2.16	1.15 (U)	
3/5/2021					2.84
3/8/2021	0.168 (U)				
9/10/2021		1.74			
9/13/2021	0.774 (U)				0.771 (U)
9/14/2021			0.617 (U)		
9/16/2021				0.442 (U)	
Mean	0.7853	1.096	1.516	0.674	1.752
Std. Dev.	0.5031	0.4956	0.7658	0.4409	1.056
Upper Lim.	1.4	1.74	2.17	1.15	2.84
Lower Lim.	0.168	0.635	0.617	0.0359	0.771

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-82
10/21/2019		0.2 (J)
8/17/2020	0.19	<0.1
9/28/2020	0.098 (J)	<0.1
3/3/2021	0.34	
9/13/2021	0.2	
9/14/2021		0.052 (J)
Mean	0.207	0.113
Std. Dev.	0.09985	0.06226
Upper Lim.	0.34	0.2
Lower Lim.	0.098	0.052

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-83
9/18/2019	0.00032 (J)	
10/21/2019		0.00012 (J)
10/24/2019	<0.001	
8/13/2020	0.0016 (J)	
8/14/2020		0.00092 (J)
9/24/2020	0.00021 (J)	
9/25/2020		6.5E-05 (J)
3/4/2021	0.00029 (J)	0.00017 (J)
9/14/2021	<0.001	
9/16/2021		<0.001
Mean	0.0007367	0.000455
Std. Dev.	0.000554	0.0004634
Upper Lim.	0.0016	0.001
Lower Lim.	0.00021	6.5E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-77	B-82	B-88
9/18/2019		0.0047 (J)		
9/23/2019			0.0039 (J)	
10/21/2019			0.0036 (J)	
10/24/2019		0.0036 (J)		
8/13/2020		0.0018 (J)		
8/17/2020			0.0016 (J)	0.006 (J)
9/24/2020		0.00095 (J)		
9/25/2020				0.0016 (J)
9/28/2020			0.001 (J)	
12/9/2020	0.021 (J)			
1/12/2021	0.021 (J)			
3/4/2021		0.0011 (J)		
3/5/2021	0.028 (J)			0.029 (J)
9/13/2021				0.0017 (J)
9/14/2021	0.029 (J)	<0.03	0.001 (J)	
Mean	0.02475	0.004525	0.00222	0.009575
Std. Dev.	0.004349	0.005339	0.001422	0.01311
Upper Lim.	0.029	0.015	0.0039	0.029
Lower Lim.	0.021	0.00095	0.001	0.0016

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.018
9/28/2020	0.036
3/9/2021	0.0099 (J)
9/15/2021	0.0076
Mean	0.01788
Std. Dev.	0.01288
Upper Lim.	0.036
Lower Lim.	0.0076

FIGURE K.

Appendix IV Trend Tests - Significant Results

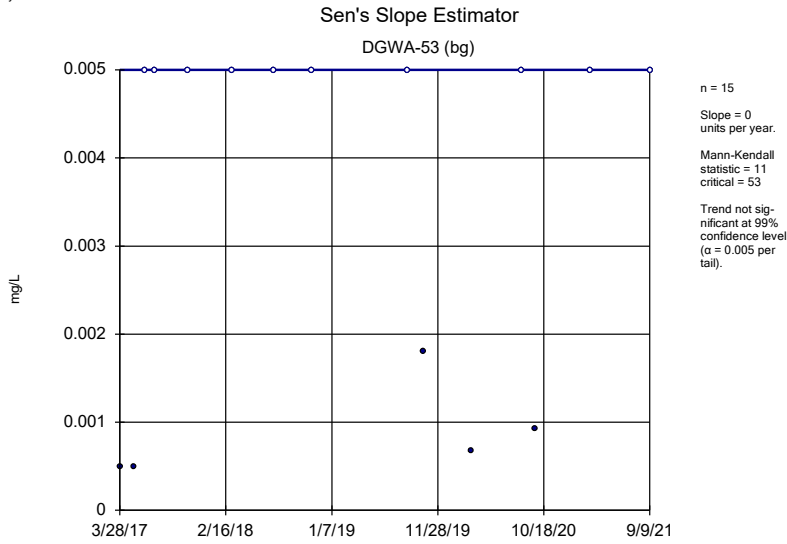
Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006733	-54	-53	Yes	15	53.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001263	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.005485	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02424	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.05383	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04534	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01234	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02407	66	53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006577	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.008187	-75	-53	Yes	15	0	n/a	n/a	0.01	NP

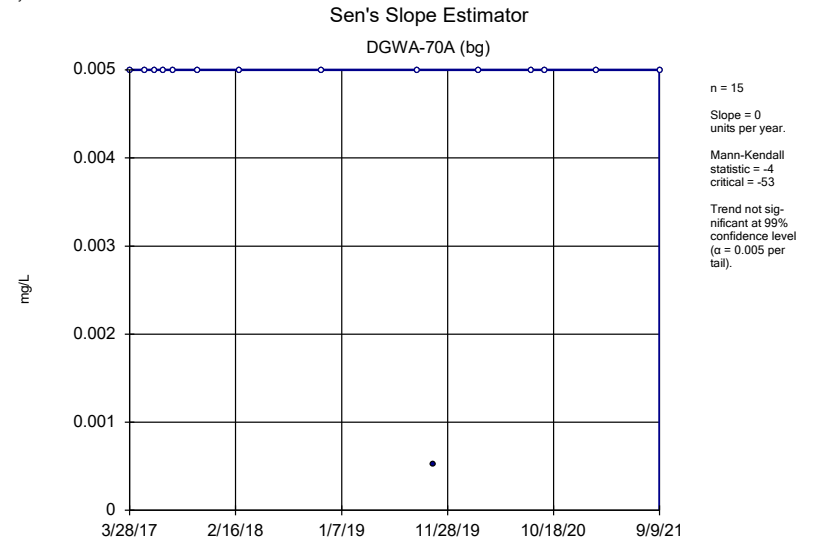
Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

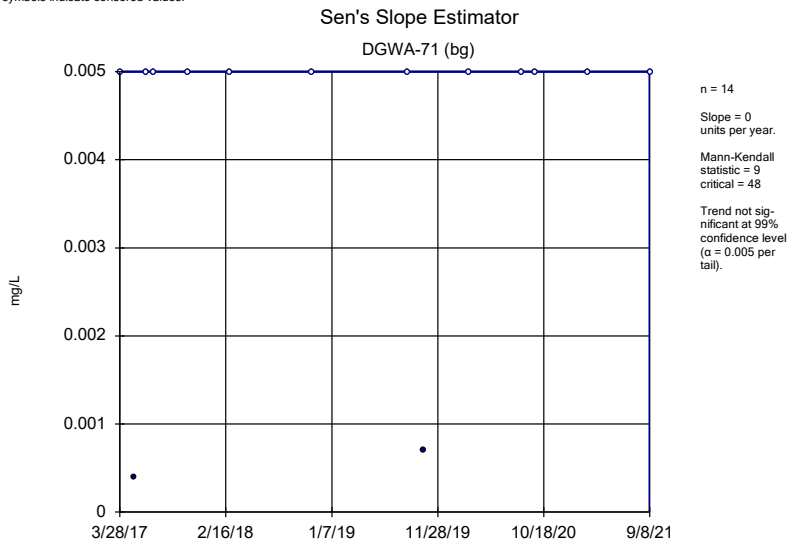
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	11	53	No	15	66.67	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-4	-53	No	15	93.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	9	48	No	14	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.001503	18	53	No	15	6.667	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006733	-54	-53	Yes	15	53.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-71 (bg)	-0.00002022	-33	-53	No	15	33.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006483	25	48	No	14	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001263	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004177	-53	-53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004286	25	48	No	14	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001134	20	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.00406	5	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.005485	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	46.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	17	48	No	14	64.29	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02424	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-19	-0.0006109	-25	-53	No	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.02101	20	53	No	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.05383	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04534	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01234	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02407	66	53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004935	3	8	No	4	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.004021	-5	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.003331	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6866	-53	-53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.004235	0	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0	0	53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-8.273	-4	-8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001578	-13	-53	No	15	6.667	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	15	53	No	15	80	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001648	-41	-48	No	14	21.43	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006577	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.008187	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	B-104D	-0.004109	-5	-8	No	4	0	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-70A (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-71 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWC-9	0.006758	19	53	No	15	0	n/a	n/a	0.01	NP



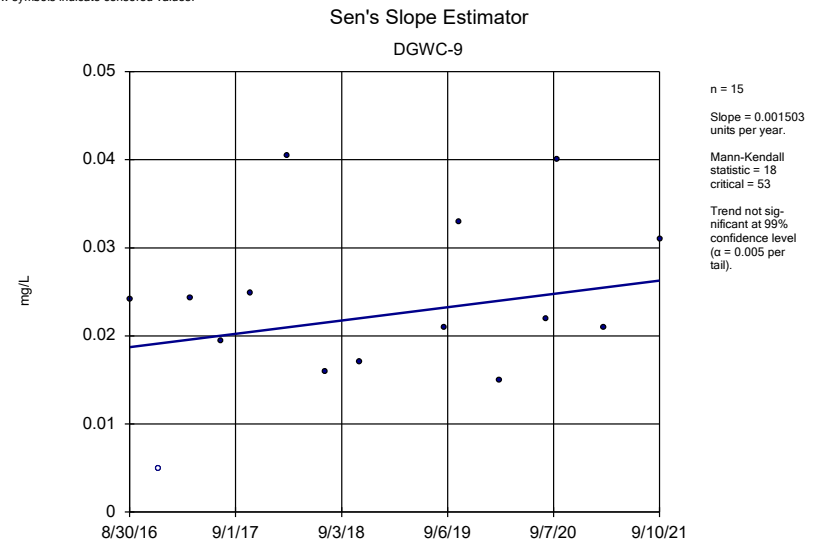
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Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Arsenic Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

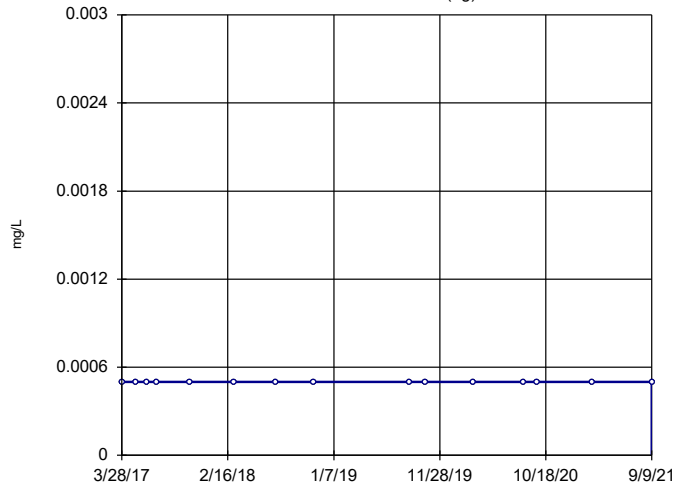


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Plant McDonough Client: Southern Company Data: McDonough AP



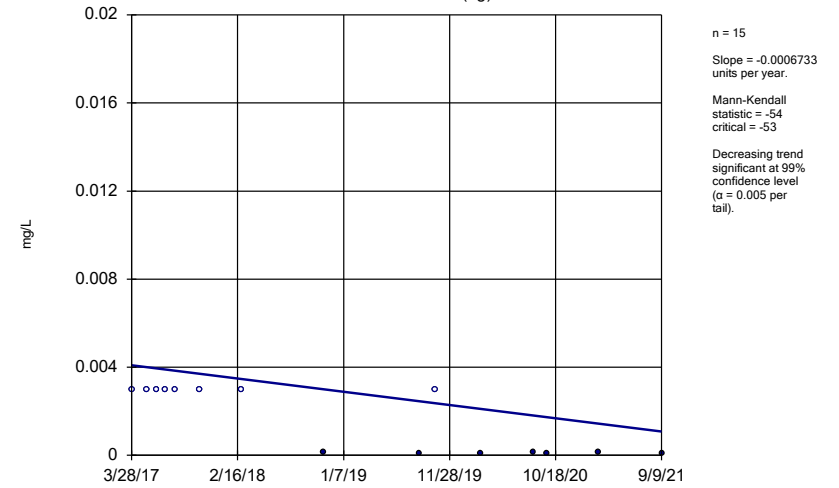
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



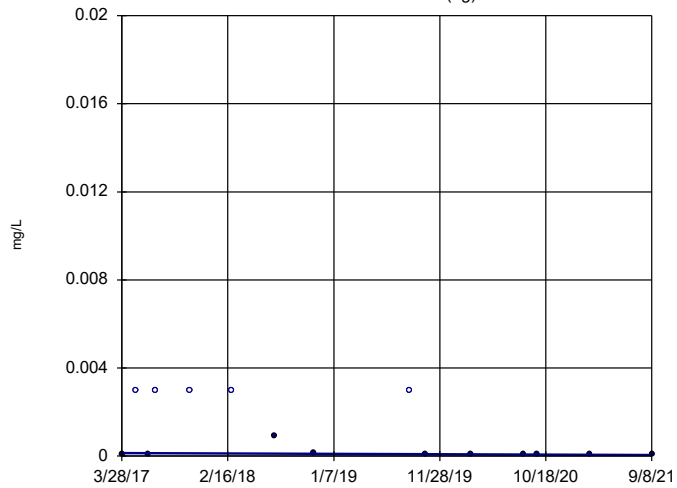
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



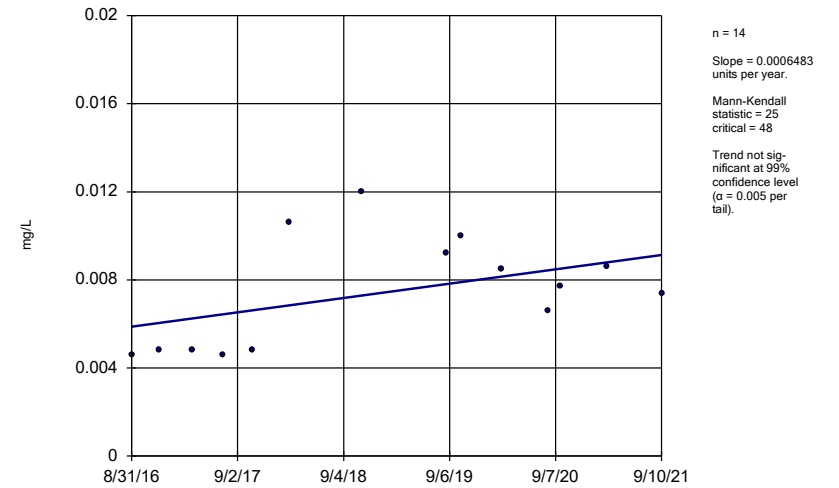
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



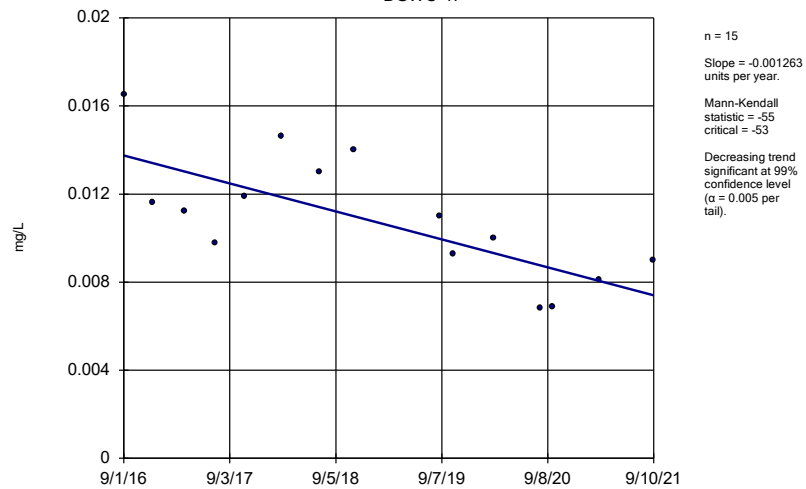
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



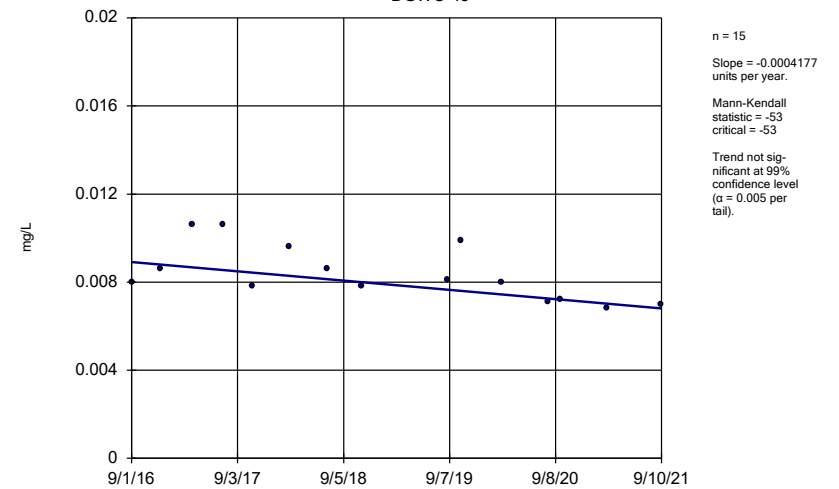
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



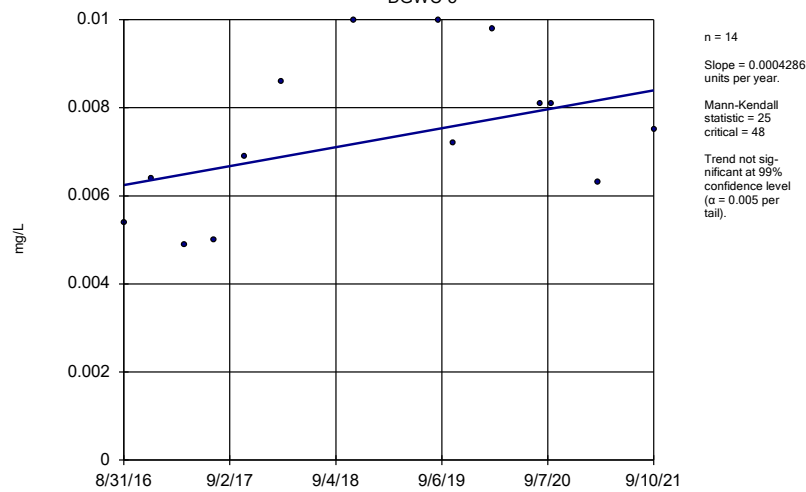
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



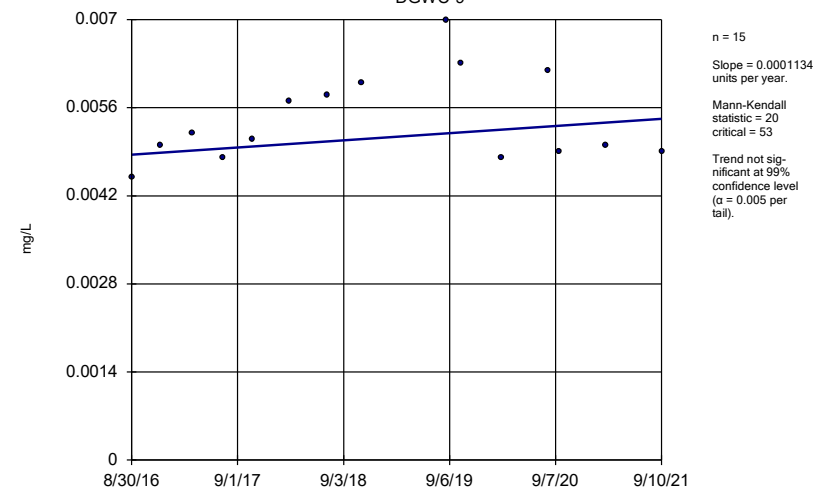
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



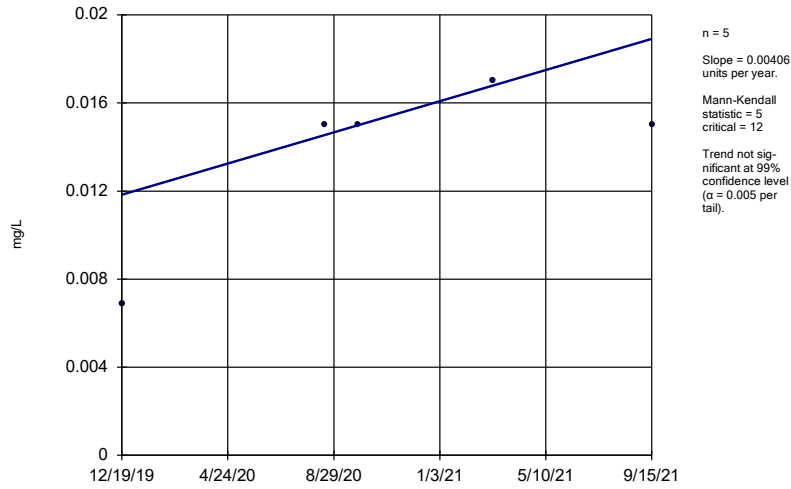
Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



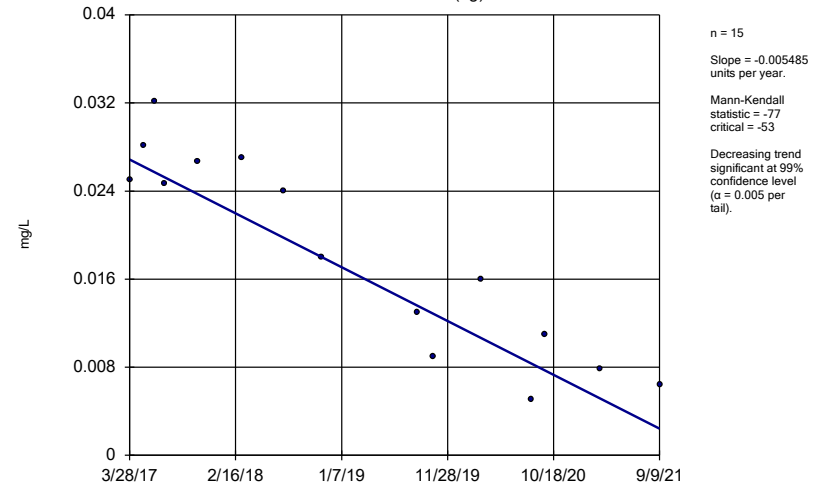
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator B-93



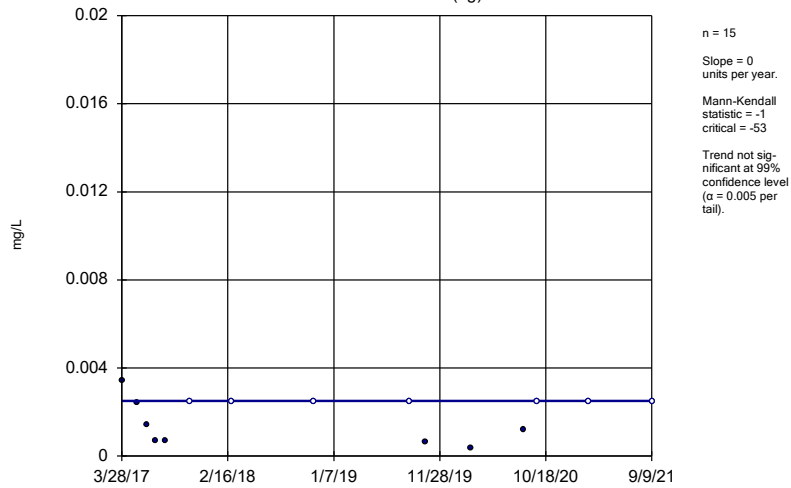
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWA-53 (bg)



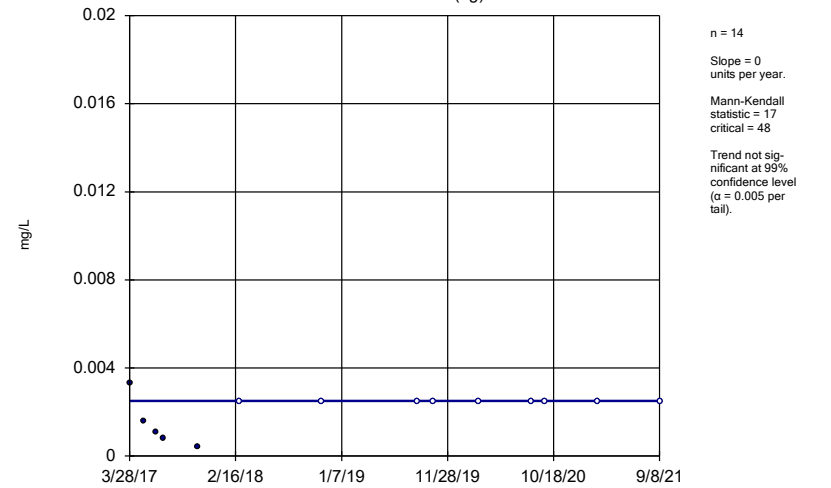
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWA-70A (bg)



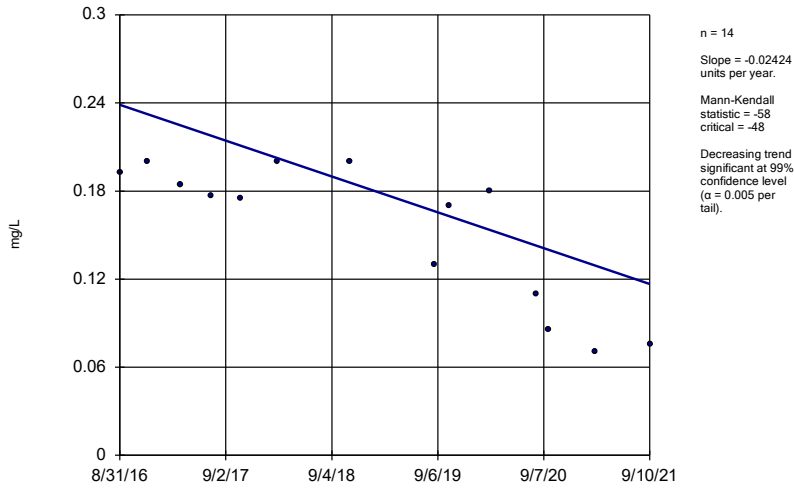
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWA-71 (bg)



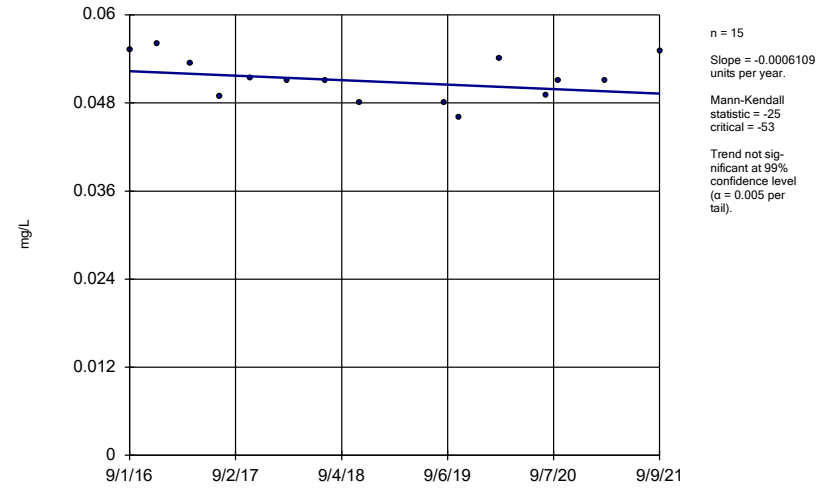
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



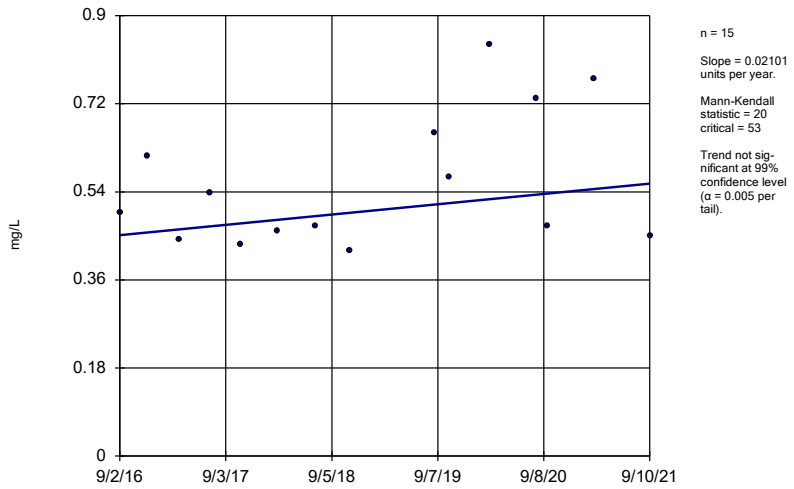
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



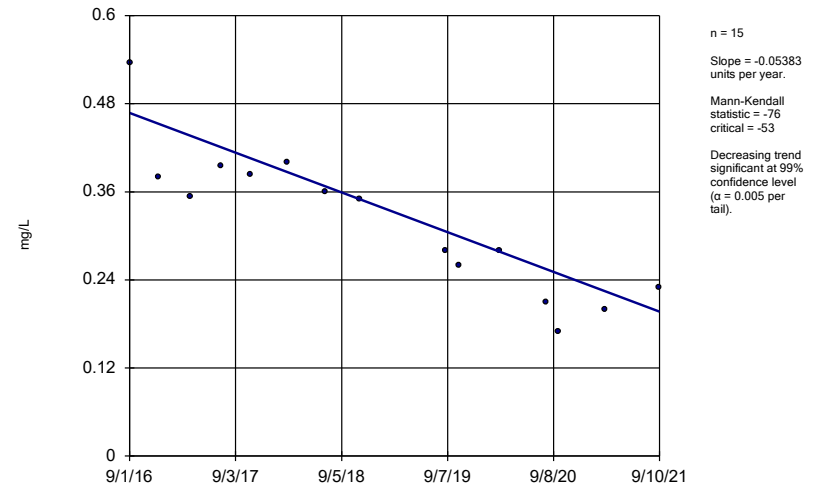
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

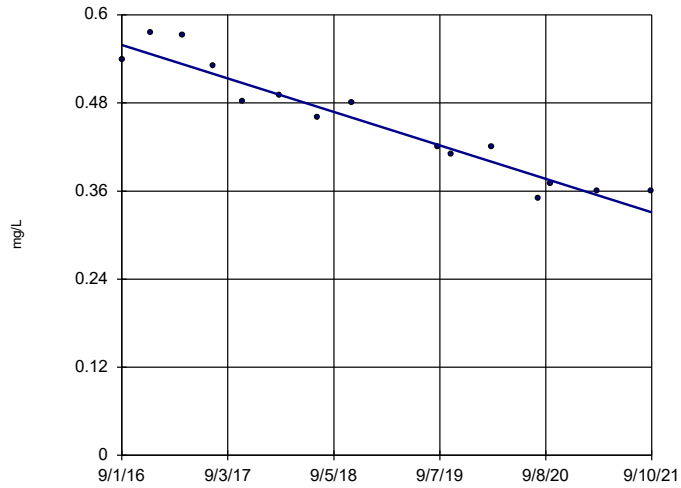
Sen's Slope Estimator
DGWC-47



Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

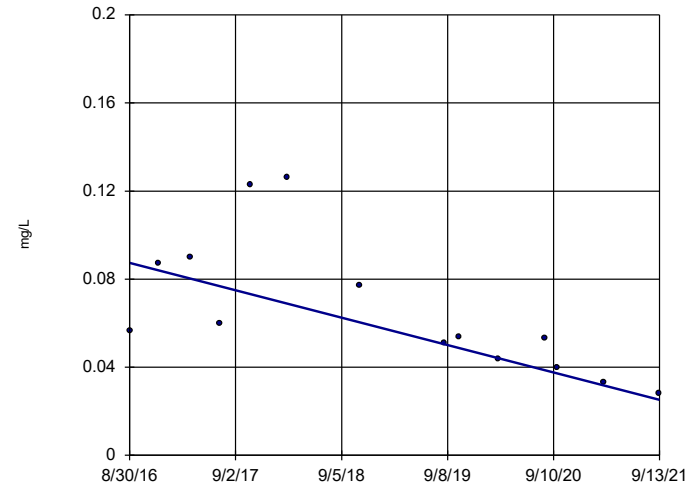


n = 15
 Slope = -0.04534 units per year.
 Mann-Kendall statistic = -87
 critical = -53
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-8

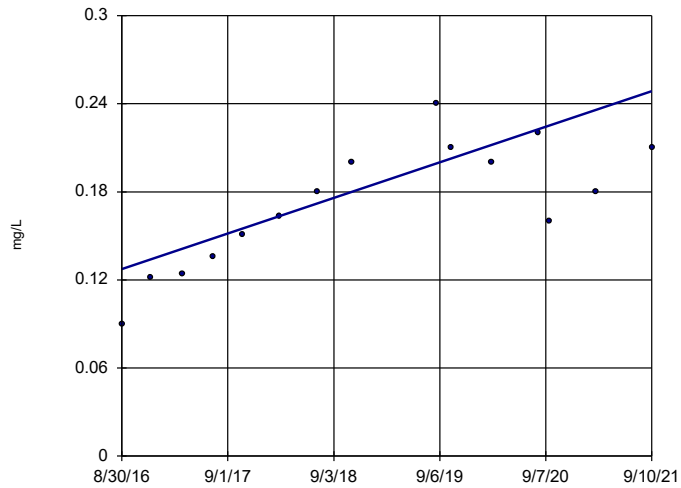


n = 14
 Slope = -0.01234 units per year.
 Mann-Kendall statistic = -55
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9

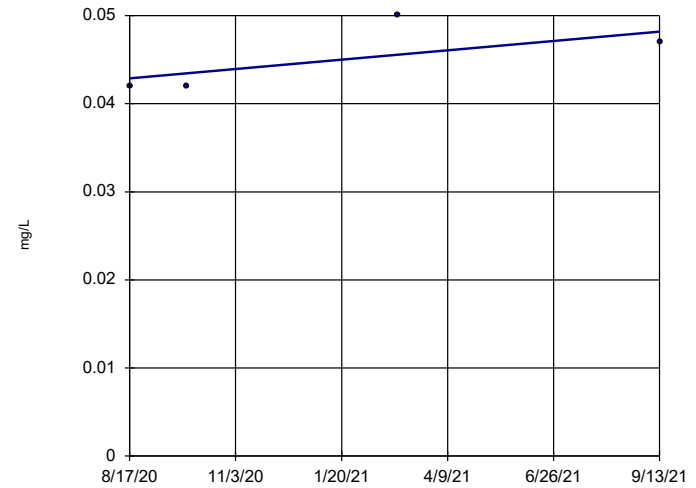


n = 15
 Slope = 0.02407 units per year.
 Mann-Kendall statistic = 66
 critical = 53
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

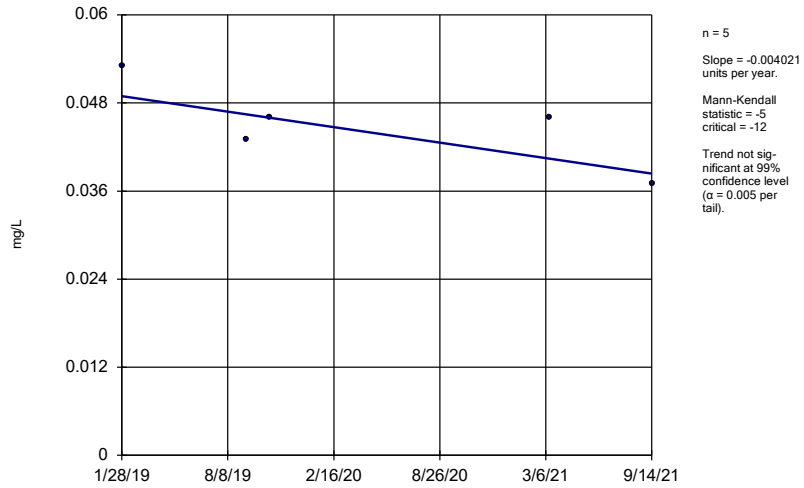
B-56



n = 4
 Slope = 0.004935 units per year.
 Mann-Kendall statistic = 3
 critical = 8
 Trend not significant at 99% confidence level (α = 0.005 per tail).
 With n = 4, no data set will result in a significant Mann-Kendall statistic.

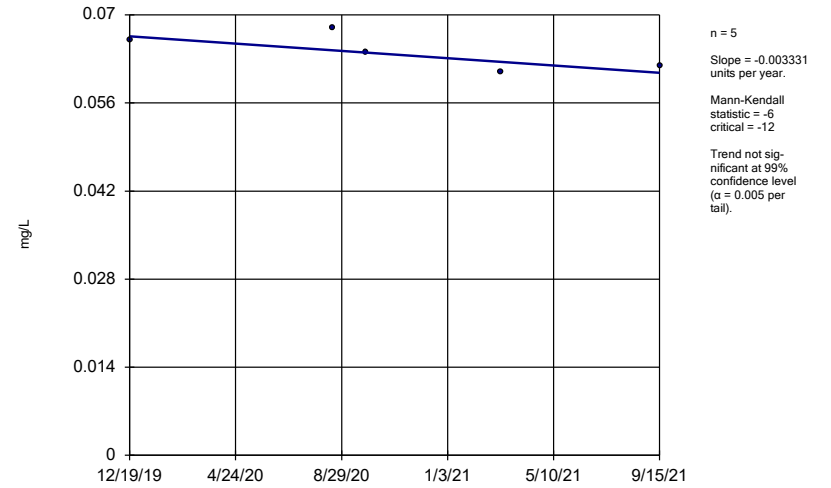
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-63



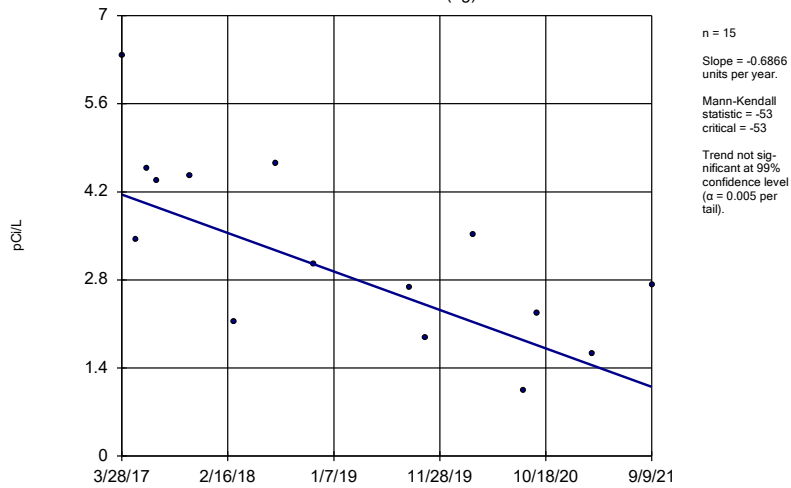
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-93



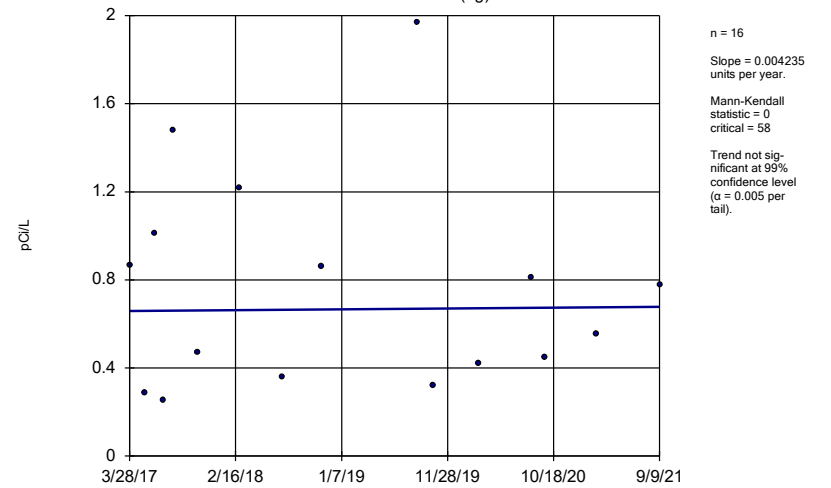
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)

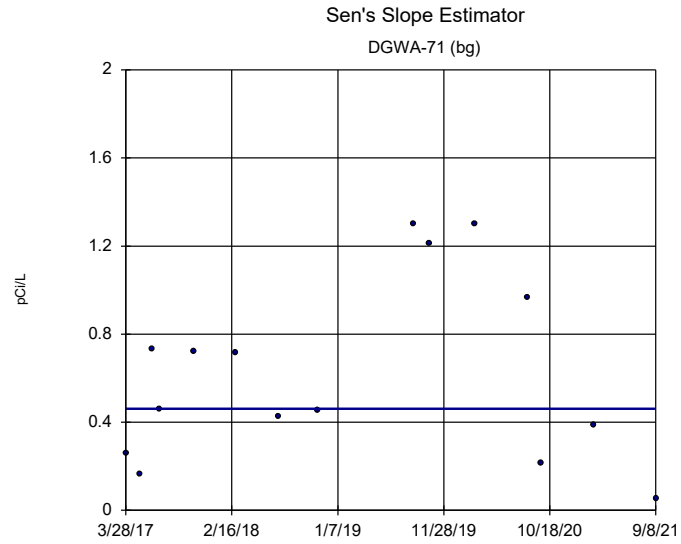


Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

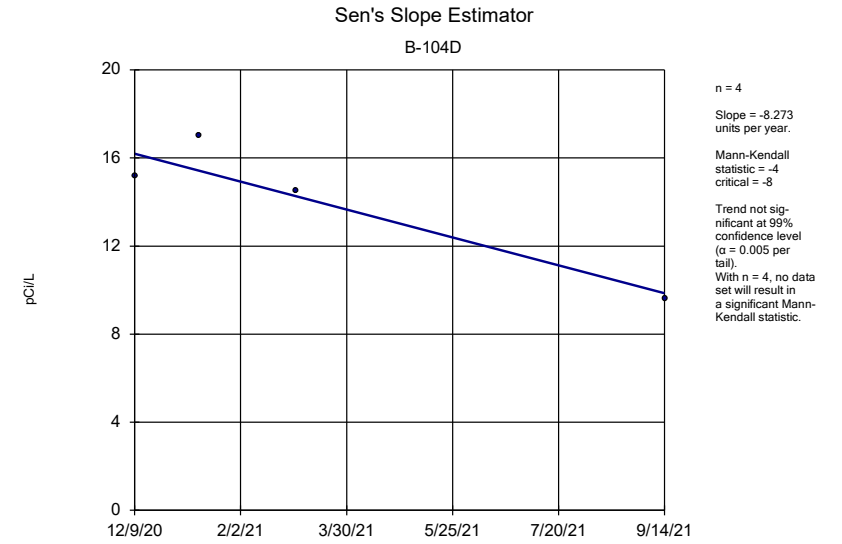
Sen's Slope Estimator
DGWA-70A (bg)



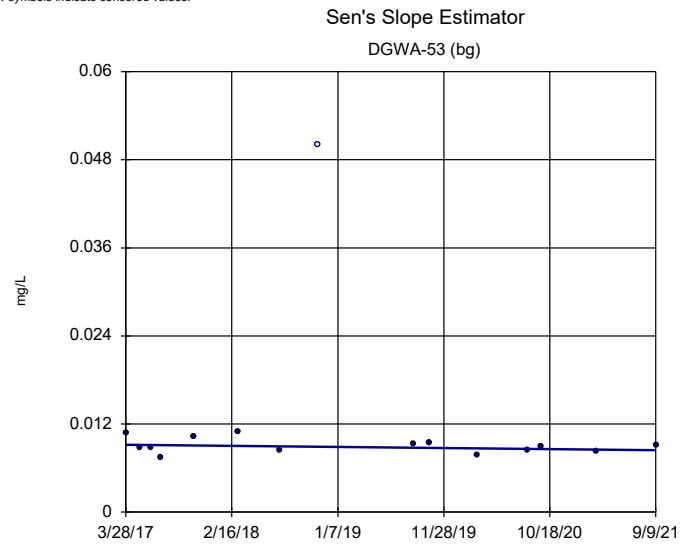
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP



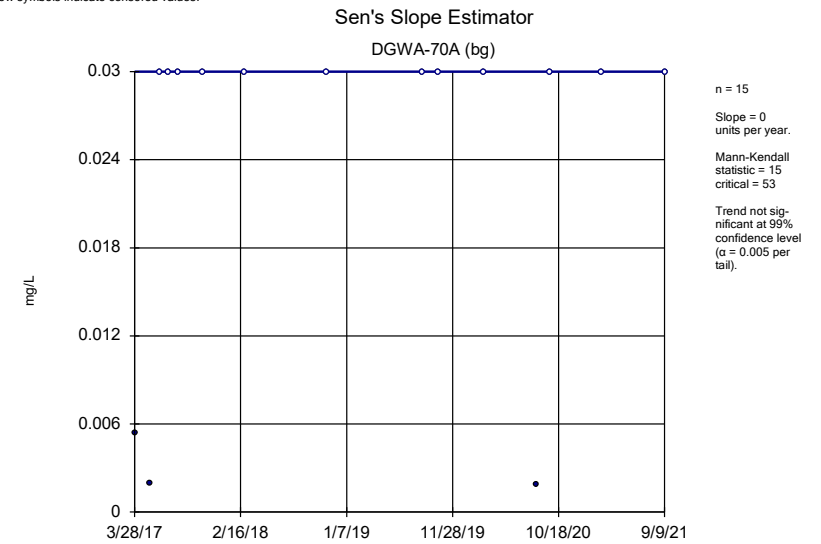
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP



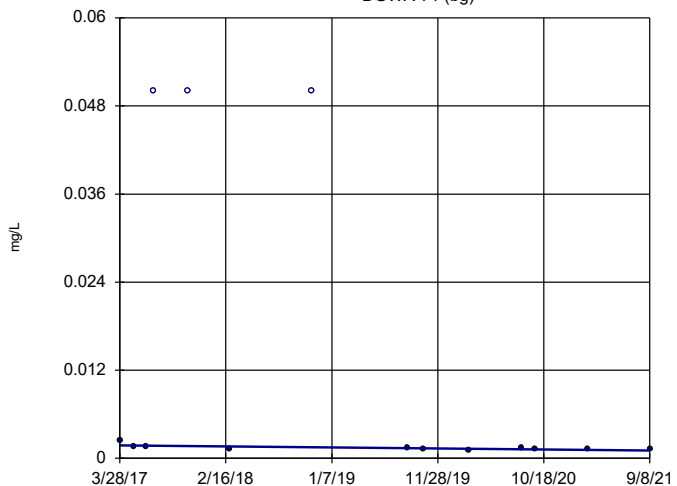
Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

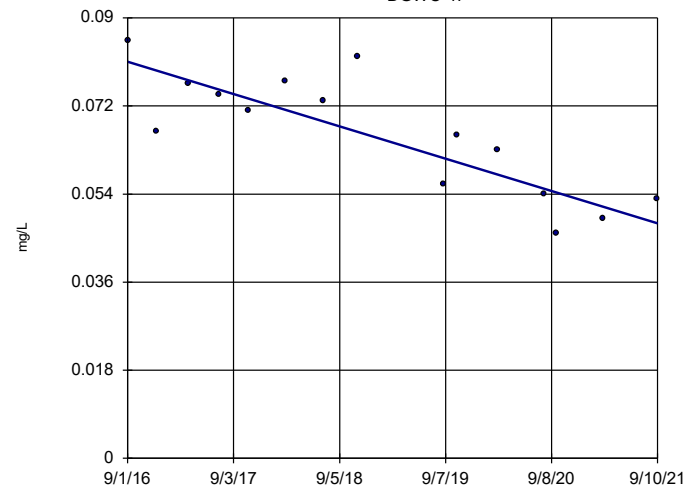


n = 14
Slope = -0.0001648
units per year.
Mann-Kendall
statistic = -41
critical = -48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47

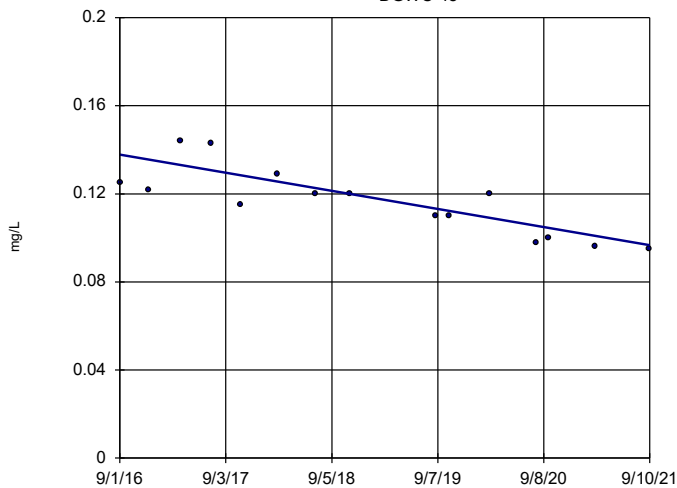


n = 15
Slope = -0.006577
units per year.
Mann-Kendall
statistic = -65
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

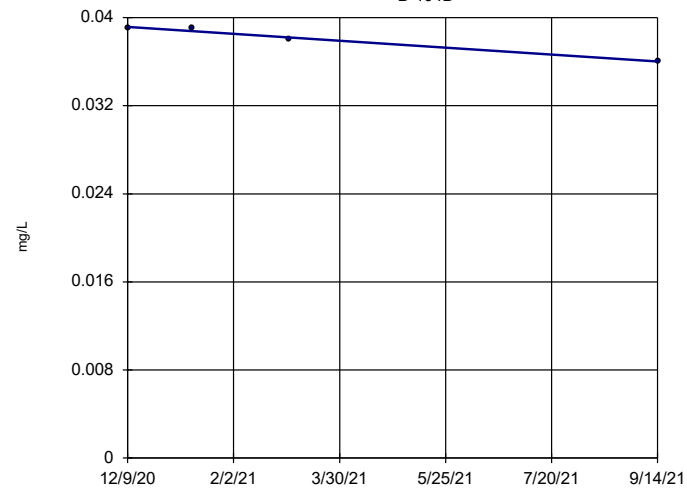


n = 15
Slope = -0.008187
units per year.
Mann-Kendall
statistic = -75
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

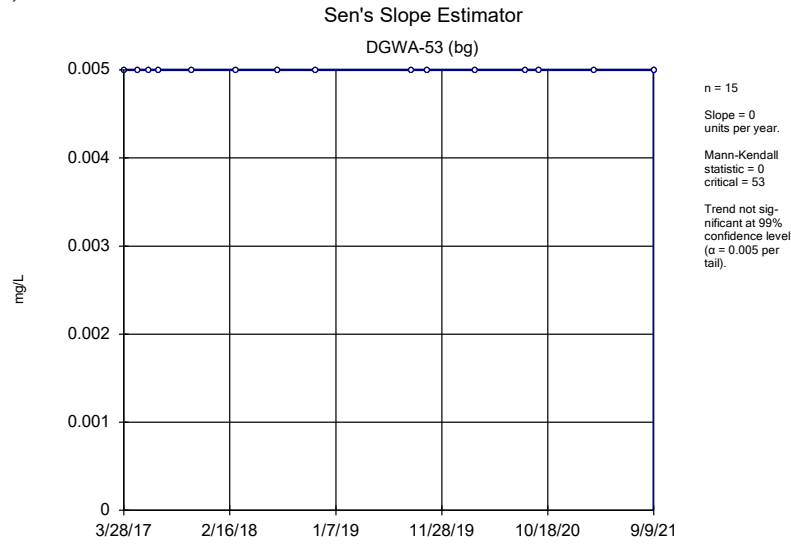
Sen's Slope Estimator

B-104D

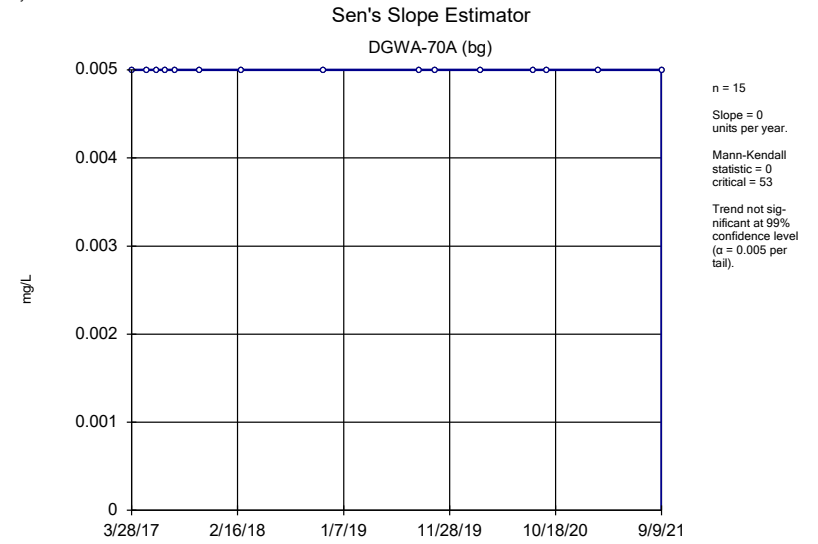


n = 4
Slope = -0.004109
units per year.
Mann-Kendall
statistic = -5
critical = -8
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).
With n = 4, no data
set will result in
a significant Mann-
Kendall statistic.

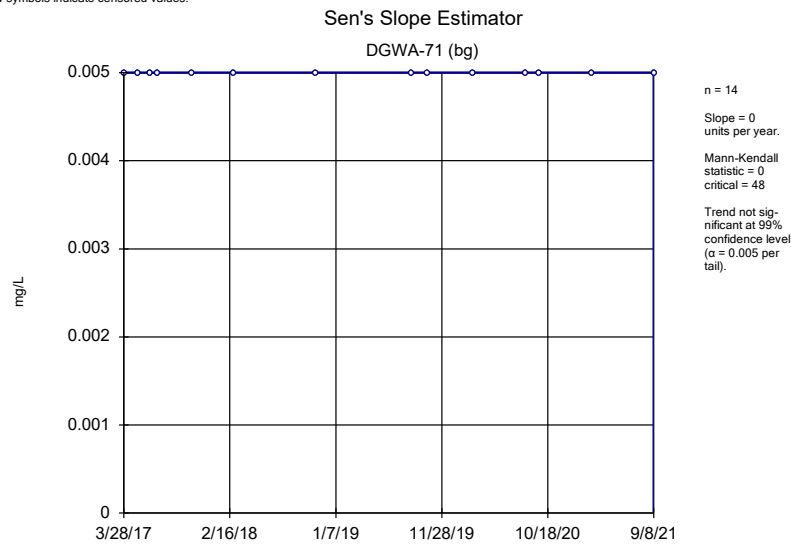
Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP



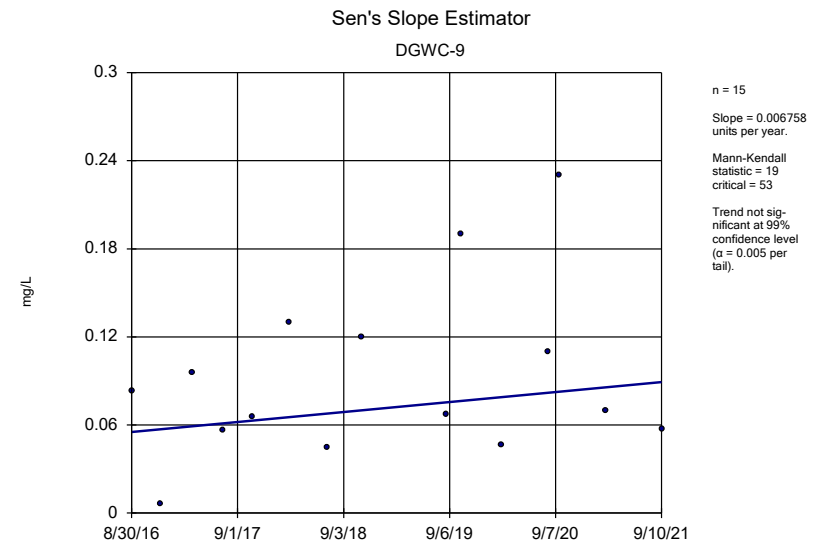
Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

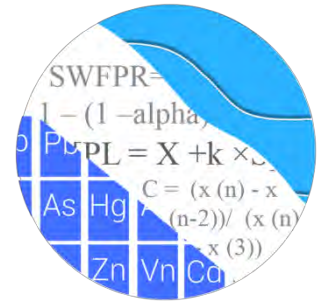


Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX D

**Statistical Analysis
January 2022**

GROUNDWATER STATS CONSULTING



July 29, 2022

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)
January 2022 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January 2022 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of groundwater data for Georgia Power Company's Plant McDonough AP-2,3,4. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals 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 Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** DGWA-53, DGWA-70A, DGWA-71
- **Downgradient wells:** DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, and DGWC-48

- **Delineation wells:** B-56, B-62, B-63, B-66, B-77, B-82, B-83, B-88, B-92, B-93, B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, and B-120D

The delineation wells were installed at various times during 2016-2020 as follows:

- **2016** - B-56, B-62, B-63, and B-66
- **2019** - B-77, B-82, B-83, B-88, B-92, and B-93
- **2020** – B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, and B-111D
- **2021** – B-115D and B-120D

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology prepared in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) program consists of 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 summary of Appendix IV downgradient and delineation well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- 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 in background, 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. In some cases, earlier data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only a few of these values were flagged in the database as all other values are similar to other measurements.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed two statistically significant decreasing trends for the Appendix III parameters. The only trend identified in the upgradient wells was a statistically significant decreasing trend for sulfate in well DGWA-71. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS, which would indicate intrawell analyses may be most appropriate for these parameters. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – January 2022

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through January 2022 (Figure D). Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The January 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. Similar patterns that are present in both upgradient and downgradient wells are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends

- Boron: DGWC-4 and DGWC-11
- Calcium: DGWC-4, DGWC-5, DGWC-11, and DGWC-19
- Chloride: DGWC-9, DGWC-15, and DGWC-20
- pH: DGWC-5 and DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, DGWC-11, and DGWC-19

Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-12, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-2, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, DGWC-12, DGWC-19, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48, and DGWA-53 (upgradient)
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-9, DGWC-13, and DGWC-47
- Sulfate: DGWC-2, DGWC-8, DGWC-12, DGWC-15, DGWC-20, DGWC-21, DGWC-42, DGWC-47, DGWC-48, DGWA-70A (upgradient), and DGWA-71 (upgradient)
- TDS: DGWC-20, DGWC-48, and DGWA-53 (upgradient)

Statistical Analysis of Appendix IV Parameters – January 2022

For Appendix IV parameters, confidence intervals for each downgradient and delineation well/constituent pair with four or more samples were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. As mentioned above, downgradient and delineation well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through January 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for combined radium. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. Note that in order to maintain

conservative limits from a regulatory perspective, non-parametric tolerance limits were used for cobalt.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). Note that confidence intervals require a minimum of 4 samples and, in many cases, the delineation wells had insufficient samples at this time. The Sanitas software was used to calculate the tolerance limits and the confidence intervals.

Due to the required transformations to fit the data to a transformed normal distribution, the lower confidence limits resulted in negative numbers for some well/constituent pairs. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well, were constructed for these particular cases 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 reported measurement in the data set rather than a negative number.

Confidence intervals were compared to the GWPS prepared as described above. 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. A summary of the confidence intervals follows this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, and B-104D
- Combined Radium 226 + 228: B-104D and B-109D
- Lithium: DGWC-47 and DGWC-48

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). 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. When trends are present in upgradient trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Cobalt: DGWC-9

Decreasing

- Beryllium: DGWA-70A (upgradient) and DGWC-48
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Combined Radium 226 + 228: DGWA-53 (upgradient)
- Lithium: DGWC-47 and DGWC-48

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McDonough AP-2,3,4. 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 & Delineation

Analysis Run 4/12/2022 3:07 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Antimony (mg/L)

DGWC-11, DGWC-13, DGWC-20, DGWC-22, DGWC-42, DGWC-9, B-107D, B-108D, B-115D, B-66, B-82, B-83, B-88, B-92, B-97, B-98

Arsenic (mg/L)

DGWC-11, DGWC-13, DGWC-21, DGWC-23, B-100, B-102D, B-106D, B-107D, B-108D, B-66, B-88, B-98

Beryllium (mg/L)

DGWC-14, DGWC-2, B-108D, B-111D, B-66

Cadmium (mg/L)

DGWC-14, B-104D, B-107D, B-108D, B-109D, B-111D, B-62, B-66, B-77

Chromium (mg/L)

DGWC-14, B-102D, B-106D, B-107D, B-108D, B-111D, B-115D, B-120D, B-66, B-92, B-97

Cobalt (mg/L)

DGWC-14, B-109D

Fluoride, total (mg/L)

B-100, B-107D, B-108D, B-120D, B-88

Lead (mg/L)

DGWC-22, B-106D, B-108D, B-109D, B-62, B-66, B-92, B-97, B-98

Mercury (mg/L)

DGWC-47, B-102D, B-106D, B-109D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-83, B-97, B-98

Molybdenum (mg/L)

DGWC-10, DGWC-11, DGWC-12, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9, B-100, B-102D, B-106D, B-107D, B-108D, B-115D, B-56, B-62, B-63, B-77, B-82, B-83, B-92, B-93, B-97

Selenium (mg/L)

DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-102D, B-106D, B-107D, B-109D, B-62, B-63, B-66

Thallium (mg/L)

DGWC-11, DGWC-13, DGWC-14, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-92, B-93, B-97, B-98

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 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)	DGWC-10	0.13	n/a	1/26/2022	0.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	1/21/2022	1.3	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	1/21/2022	0.64	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	1/24/2022	0.59	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	1/26/2022	1.2	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.648	5.14	1/26/2022	4.9	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.648	5.14	1/25/2022	4.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.648	5.14	1/25/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.648	5.14	1/21/2022	4.47	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.648	5.14	1/21/2022	3.72	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.648	5.14	1/24/2022	4.03	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.648	5.14	1/24/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.648	5.14	1/26/2022	3.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-10	32.59	n/a	1/26/2022	241	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022	250	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022	111	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022	116	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022	44.4	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022	127	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022	225	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022	288	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022	101	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022	406	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022	223	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022	221	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022	211	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022	816	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022	281	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022	135	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022	265	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022	434	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022	134	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022	245	Yes	46		2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	292	n/a	1/26/2022	425	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	292	n/a	1/25/2022	465	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	292	n/a	1/24/2022	294	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	292	n/a	1/25/2022	694	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	292	n/a	1/21/2022	702	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	292	n/a	1/20/2022	434	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022	453	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	292	n/a	1/24/2022	1520	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	292	n/a	1/20/2022	504	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	292	n/a	1/24/2022	500	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	292	n/a	1/24/2022	810	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	292	n/a	1/26/2022	409	Yes	45		4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 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)	DGWC-10	0.13	n/a	1/26/2022	0.4	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	1/25/2022	0.097	No	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	1/25/2022	28.5	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	1/25/2022	12.4	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	1/24/2022	33.2	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	1/24/2022	15.6	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	1/20/2022	38.1	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	1/21/2022	31	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	1/25/2022	36.8	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.9	n/a	1/25/2022	3.7	No	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.9	n/a	1/20/2022	2	No	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	5.9	n/a	1/21/2022	3.1	No	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower LimDate	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method	
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	1/25/2022	0.093J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	1/25/2022	0.063J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	1/25/2022	0.16	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	1/21/2022	1.3	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	1/21/2022	0.64	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	1/24/2022	0.59	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	1/24/2022	0.19	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	1/26/2022	1.2	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.648	5.14	1/26/2022	4.9	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-11	6.648	5.14	1/25/2022	5.54	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.648	5.14	1/25/2022	5.96	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.648	5.14	1/25/2022	4.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-14	6.648	5.14	1/25/2022	5.69	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.648	5.14	1/24/2022	6.06	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.648	5.14	1/24/2022	5.15	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.648	5.14	1/25/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-2	6.648	5.14	1/20/2022	5.93	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.648	5.14	1/21/2022	4.47	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-21	6.648	5.14	1/20/2022	5.73	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.648	5.14	1/20/2022	5.72	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.648	5.14	1/20/2022	5.95	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.648	5.14	1/24/2022	5.79	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.648	5.14	1/20/2022	5.27	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.648	5.14	1/21/2022	3.72	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.648	5.14	1/24/2022	4.03	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.648	5.14	1/24/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.648	5.14	1/25/2022	5.16	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.648	5.14	1/26/2022	3.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	32.59	n/a	1/26/2022	241	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022	250	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022	111	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022	116	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022	44.4	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022	127	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022	225	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022	288	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022	101	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022	406	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022	223	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022	221	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022	211	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022	816	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022	281	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022	135	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022	265	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022	434	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022	134	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022	245	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	292	n/a	1/26/2022	425	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	292	n/a	1/25/2022	465	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	292	n/a	1/25/2022	258	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	292	n/a	1/25/2022	256	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 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)	DGWC-14	292	n/a	1/25/2022	120	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	292	n/a	1/24/2022	294	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	292	n/a	1/25/2022	694	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	292	n/a	1/20/2022	238	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	292	n/a	1/21/2022	702	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	292	n/a	1/20/2022	434	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022	453	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	292	n/a	1/24/2022	1520	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	292	n/a	1/20/2022	504	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	292	n/a	1/21/2022	289	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	292	n/a	1/24/2022	500	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	292	n/a	1/24/2022	810	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	292	n/a	1/25/2022	281	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	292	n/a	1/26/2022	409	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7132	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.08249	75	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.43	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2272	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6903	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3017	65	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03265	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07326	-78	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3967	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2711	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.275	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.601	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.354	87	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-13.53	-95	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	17.38	59	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.628	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.063	55	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1763	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.8473	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4803	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.45	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.662	93	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.037	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.285	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8946	-86	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.126	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.978	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5633	54	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1955	-80	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1642	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-13	-0.06625	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04803	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1902	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.1003	74	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02679	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.216	-55	-53	Yes	15	40	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.312	-82	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-50.98	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-9.472	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	14.93	62	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-53.07	-97	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-48.56	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-8.732	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-15.64	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-51.02	-88	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-54.75	-90	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-69.52	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-23.75	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	30.62	64	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.84	66	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.25	55	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-60.89	-93	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	39.72	67	48	Yes	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002527	-24	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	28	53	No	15	53.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0001023	5	48	No	14	21.43	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-10	-0.7132	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.08249	75	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.43	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.07561	-48	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.008405	14	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03786	51	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1663	-50	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2272	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6903	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-21	0.2662	29	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.07733	22	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.0895	26	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3017	65	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-42	-0.01594	-35	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03265	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07326	-78	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-5	-0.1368	-14	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3967	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2711	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.275	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-70A (bg)	-0.06518	-19	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.5623	-35	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.103	-19	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.601	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-13	-0.7799	-18	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.354	87	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-13.53	-95	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-20	-4.061	-29	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.327	53	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.1555	16	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.537	46	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	17.38	59	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.628	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.063	55	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-9	-5.365	-37	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1763	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.079	-43	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.1515	25	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.5794	-39	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.7627	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.8473	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.2641	-11	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4803	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-17	0.529	33	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.45	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.662	93	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.037	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.285	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8946	-86	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.126	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.978	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.3113	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1555	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5633	54	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.003916	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	53	58	No	16	68.75	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-71 (bg)	0	35	63	No	17	82.35	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03586	21	63	No	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04913	16	63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1955	-80	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1642	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-9	0.03215	20	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02528	14	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.00911	13	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.03925	29	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-13	-0.06625	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04803	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.02415	-51	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1902	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-48	-0.04311	-40	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.1003	74	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02679	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.9208	-30	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.216	-55	-53	Yes	15	40	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.312	-82	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-10	-32.25	-48	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.59	36	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-50.98	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-13	-8.89	-47	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.1167	-2	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-9.472	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-17	-0.9288	-12	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	14.93	62	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-53.07	-97	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-48.56	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-8.732	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-9.596	-24	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	23.78	31	53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-15.64	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-51.02	-88	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-54.75	-90	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-5	-1.321	-3	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-69.52	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-9	-11.86	-29	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-23.75	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-4.828	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-33.06	-50	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	30.62	64	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	1.09	7	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.13	46	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.84	66	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-2.212	-6	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.767	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.8022	6	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.25	55	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-20.5	-38	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-60.89	-93	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	39.72	67	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	3.023	4	53	No	15	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:27 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	0.003	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0054	n/a	n/a	n/a	n/a	47	n/a	n/a	76.6	n/a	n/a	0.08974	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	n/a	47	n/a	n/a	0	n/a	n/a	0.08974	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	n/a	48	n/a	n/a	60.42	n/a	n/a	0.08526	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	47	n/a	n/a	93.62	n/a	n/a	0.08974	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	46	n/a	n/a	63.04	n/a	n/a	0.09447	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	n/a	47	n/a	n/a	38.3	n/a	n/a	0.08974	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	4.983	n/a	n/a	n/a	n/a	49	1.109	0.5427	0	None	sqrt(x)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	n/a	51	n/a	n/a	52.94	n/a	n/a	0.0731	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	47	n/a	n/a	36.17	n/a	n/a	0.08974	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	47	n/a	n/a	85.11	n/a	n/a	0.08974	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	n/a	47	n/a	n/a	63.83	n/a	n/a	0.08974	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	47	n/a	n/a	100	n/a	n/a	0.08974	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	95.74	n/a	n/a	0.08974	NP Inter(NDs)

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.0054	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		4.98	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02913	0.01664	0.01	Yes	16	0.02289	0.009597	6.25	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02525	0.01025	0.004	Yes	4	0.01775	0.003304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01753	0.01058	0.004	Yes	6	0.01432	0.003763	0	None	x^4	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009206	0.005901	0.004	Yes	15	0.007553	0.002439	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01262	0.009092	0.004	Yes	16	0.01086	0.002711	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009115	0.00746	0.004	Yes	16	0.008288	0.001272	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008667	0.006346	0.004	Yes	15	0.007507	0.001712	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.00586	0.004965	0.004	Yes	16	0.005413	0.0006879	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.19	0.1	0.032	Yes	5	0.15	0.04637	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-56	0.05424	0.03896	0.032	Yes	5	0.0466	0.004561	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05187	0.03613	0.032	Yes	6	0.044	0.005727	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06769	0.06065	0.032	Yes	6	0.06417	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.2	0.086	0.032	Yes	15	0.1501	0.04897	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05338	0.04952	0.032	Yes	16	0.05145	0.002973	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6741	0.4755	0.032	Yes	16	0.5821	0.1636	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3773	0.2515	0.032	Yes	16	0.3144	0.09666	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4998	0.3952	0.032	Yes	16	0.4475	0.08036	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08457	0.04108	0.032	Yes	15	0.06283	0.03209	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2031	0.1476	0.032	Yes	16	0.1754	0.04258	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	18.51	8.768	5	Yes	5	13.64	2.907	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.75	6.021	5	Yes	4	12.39	2.804	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07348	0.05756	0.04	Yes	16	0.06552	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1258	0.1063	0.04	Yes	16	0.1161	0.015	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	5	0.0024	0.0008337	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-101D	0.0019	0.00039	0.006	No	4	0.001028	0.0006355	0	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	5	0.00272	0.0006261	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-104D	0.001115	0.0004656	0.006	No	5	0.001208	0.001019	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	4	0.00237	0.00126	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	4	0.00169	0.001603	25	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	5	0.00252	0.001073	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	5	0.00262	0.0008497	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	8	0.002683	0.000898	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	5	0.002532	0.001046	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	7	0.001917	0.001353	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	5	0.00268	0.0007155	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	15	0.00294	0.0002324	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	16	0.002881	0.000475	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	16	0.002691	0.0008468	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	16	0.002841	0.0006375	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	16	0.002835	0.00066	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	16	0.00285	0.0006	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	16	0.002856	0.000575	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	15	0.002525	0.0009859	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	16	0.002888	0.00045	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	16	0.002762	0.0006998	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	15	0.002721	0.0007685	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	15	0.002831	0.0006558	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	4	0.004175	0.00165	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-104D	0.003739	0.001527	0.01	No	5	0.00358	0.001417	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	4	0.0044	0.0012	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-111D	0.002994	0.001984	0.01	No	5	0.00348	0.001413	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	5	0.0037	0.0008276	0	None	No	0.031	NP (normality)
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	8	0.004787	0.000601	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-77	0.002995	0.00198	0.01	No	7	0.0032	0.00129	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	7	0.004714	0.0007559	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-93	0.002958	0.001042	0.01	No	5	0.0032	0.001716	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006969	0.003657	0.01	No	15	0.005313	0.002444	6.667	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	17	0.004484	0.001456	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	16	0.004712	0.001152	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	16	0.004221	0.00168	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	16	0.003271	0.002034	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001941	0.000939	0.01	No	16	0.002259	0.001516	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	16	0.004424	0.001273	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01654	0.007987	0.01	No	16	0.01226	0.006572	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	16	0.00475	0.001	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	15	0.00386	0.001961	73.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	16	0.004487	0.001402	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002781	0.001442	0.01	No	16	0.002687	0.001474	18.75	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	16	0.003318	0.001988	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.00948	0.002765	0.01	No	15	0.008007	0.009756	13.33	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	15	0.003777	0.001805	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.02913	0.01664	0.01	Yes	16	0.02289	0.009597	6.25	None	No	0.01	Param.
Barium (mg/L)	B-100	0.02464	0.01515	2	No	5	0.0206	0.003209	0	None	x^3	0.01	Param.
Barium (mg/L)	B-101D	0.08756	0.05325	2	No	4	0.0695	0.00755	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-102D	0.02437	0.01963	2	No	5	0.022	0.001414	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02643	0.01917	2	No	5	0.0228	0.002168	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-106D	0.02292	0.01858	2	No	4	0.02075	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1549	0.05958	2	No	4	0.1073	0.021	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06986	0.05114	2	No	4	0.0605	0.004123	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.08497	0.007526	2	No	4	0.04625	0.01706	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.04672	0.02248	2	No	5	0.0346	0.007232	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03135	0.02465	2	No	5	0.028	0.002	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02672	0.02003	2	No	8	0.02338	0.003159	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.02917	0.01723	2	No	5	0.0232	0.003564	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02113	0.01487	2	No	5	0.018	0.001871	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1281	0.09357	2	No	7	0.1109	0.01455	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03114	0.02086	2	No	6	0.026	0.003742	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.04907	0.02034	2	No	6	0.03383	0.01143	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-88	0.0243	0.0153	2	No	5	0.0198	0.002683	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.02107	0.01413	2	No	5	0.0176	0.002074	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02917	0.02293	2	No	15	0.02605	0.004606	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06572	0.05513	2	No	15	0.06043	0.007817	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03386	0.02441	2	No	17	0.02975	0.008686	0	None	ln(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03263	0.02737	2	No	15	0.02901	0.007107	6.667	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06275	0.0582	2	No	16	0.06048	0.003503	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05027	0.04394	2	No	16	0.04711	0.004864	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.0553	0.04047	2	No	16	0.04789	0.01139	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02548	0.02201	2	No	16	0.02374	0.002664	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02263	0.02137	2	No	16	0.022	0.0009661	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01565	0.009614	2	No	16	0.01263	0.004637	6.25	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	16	0.02584	0.001534	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03732	0.03162	2	No	16	0.03447	0.004386	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02371	0.01873	2	No	16	0.02131	0.004018	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03608	0.0324	2	No	15	0.03424	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02019	0.01598	2	No	16	0.01809	0.003235	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01957	0.01604	2	No	16	0.01781	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	16	0.01369	0.0009849	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01831	0.0166	2	No	14	0.01746	0.001208	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03722	0.02572	2	No	15	0.03147	0.008488	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01621	0.01491	2	No	16	0.01556	0.001002	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005873	0.0003207	0.004	No	5	0.000454	0.00007956	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00009478	0.00003472	0.004	No	4	0.00006475	0.00001323	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001438	0.001002	0.004	No	5	0.00122	0.0001304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.00162	0.00102	0.004	No	5	0.00132	0.0001789	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001442	0.0001008	0.004	No	4	0.0001225	0.000009574	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	4	0.0003875	0.000225	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	B-109D	0.0005	0.000059	0.004	No	4	0.0001773	0.0002153	25	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.001318	0.001082	0.004	No	5	0.0012	0.00007071	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	9	0.000202	0.0001705	22.22	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-63	0.0004902	0.0003098	0.004	No	7	0.0004	0.00007594	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0005	0.000053	0.004	No	7	0.0002657	0.0002212	42.86	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-82	0.002008	0.001092	0.004	No	6	0.00155	0.0003332	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006048	0.0002408	0.004	No	6	0.0004017	0.0001548	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005069	0.0001483	0.004	No	5	0.001986	0.00175	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-92	0.02525	0.01025	0.004	Yes	4	0.01775	0.003304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01753	0.01058	0.004	Yes	6	0.01432	0.003763	0	None	x^4	0.01	Param.
Beryllium (mg/L)	B-97	0.002084	0.0003761	0.004	No	5	0.00152	0.0005848	20	Kaplan-Meier	x^2	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000068	0.004	No	5	0.0004876	0.0002841	60	Kaplan-Meier	No	0.031	NP (NDs)
Beryllium (mg/L)	DGWC-10	0.009206	0.005901	0.004	Yes	15	0.007553	0.002439	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.0005	0.00013	0.004	No	15	0.000476	0.0007205	46.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	17	0.0004005	0.0006832	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	15	0.0004967	0.0007238	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	16	0.0006111	0.0006494	87.5	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-17	0.0006166	0.0005309	0.004	No	16	0.0005738	0.00006592	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	16	0.001906	0.0004809	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.005282	0.00248	0.004	No	16	0.003881	0.002153	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	16	0.0003625	0.0007092	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00014	0.004	No	16	0.0003613	0.0007093	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	16	0.0006081	0.0006451	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	15	0.0004213	0.0007196	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.0027	0.002043	0.004	No	16	0.002313	0.0006407	6.25	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01262	0.009092	0.004	Yes	16	0.01086	0.002711	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009115	0.00746	0.004	Yes	16	0.008288	0.001272	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008667	0.006346	0.004	Yes	15	0.007507	0.001712	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.002987	0.001628	0.004	No	15	0.00236	0.00108	6.667	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.00586	0.004965	0.004	Yes	16	0.005413	0.0006879	0	None	No	0.01	Param.
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	5	0.000402	0.0001718	0	None	No	0.031	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	4	0.0004025	0.000195	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009489	0.0006591	0.005	No	5	0.000804	0.00008649	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0003088	0.00007618	0.005	No	4	0.0001925	0.00005123	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0002987	0.0002293	0.005	No	5	0.000264	0.00002074	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	5	0.000378	0.0001715	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-82	0.0007813	0.0003687	0.005	No	6	0.000575	0.0001502	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004012	0.0002521	0.005	No	6	0.0003267	0.00005428	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	5	0.002684	0.002458	0	None	No	0.031	NP (selected)
Cadmium (mg/L)	B-93	0.0008797	0.0006923	0.005	No	5	0.000786	0.00005595	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001179	0.0007973	0.005	No	15	0.000988	0.0002814	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	15	0.0004047	0.0001639	73.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003402	0.0002276	0.005	No	17	0.0004006	0.0001874	29.41	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	15	0.000452	0.0001287	86.67	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	16	0.0004331	0.0002304	75	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	16	0.0002969	0.00008784	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	16	0.00042	0.0001609	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.000281	0.0001339	0.005	No	16	0.000375	0.0002281	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002305	0.001758	0.005	No	16	0.002031	0.0004207	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.000639	0.0003517	0.005	No	16	0.0005981	0.0001973	18.75	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006895	0.0004592	0.005	No	16	0.0005744	0.000177	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	16	0.0002856	0.0002091	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.000847	0.0006264	0.005	No	15	0.0007367	0.0001628	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001058	0.0004581	0.005	No	16	0.0007956	0.0005496	12.5	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00216	0.00129	0.005	No	16	0.001725	0.0006678	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0028	0.005	No	16	0.003488	0.001632	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008318	0.0004655	0.005	No	15	0.0006487	0.0002703	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002476	0.001924	0.005	No	15	0.0022	0.0004071	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006618	0.0005096	0.005	No	16	0.0005925	0.0001326	12.5	None	ln(x)	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	5	0.003302	0.002329	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	4	0.0041	0.0018	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	4	0.003902	0.002195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001524	0.0003348	0.1	No	5	0.002678	0.002145	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	8	0.004497	0.001421	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	5	0.004128	0.00195	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	7	0.00278	0.00213	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-83	0.005747	0.001953	0.1	No	6	0.00385	0.001381	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.00197	0.0007556	0.1	No	5	0.00279	0.00204	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-93	0.001195	0.0004647	0.1	No	5	0.002466	0.002322	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	15	0.00224	0.002024	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	15	0.003826	0.002015	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	17	0.004525	0.00134	88.24	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	15	0.003859	0.001959	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	16	0.004459	0.00232	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0025	0.1	No	16	0.003037	0.0008366	12.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	16	0.003387	0.001958	18.75	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	16	0.003323	0.002237	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0016	0.1	No	16	0.003381	0.002329	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	16	0.003434	0.002117	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	16	0.004762	0.00095	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	16	0.002363	0.002124	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	15	0.0047	0.001162	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	16	0.003202	0.002139	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	16	0.004731	0.001075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	16	0.004444	0.001521	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	15	0.004697	0.001175	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	15	0.003498	0.001973	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	16	0.003549	0.002106	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	7	0.05457	0.02716	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	B-101D	0.003913	0.001837	0.032	No	4	0.002875	0.0004573	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01518	0.01282	0.032	No	5	0.014	0.0007071	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.19	0.1	0.032	Yes	5	0.15	0.04637	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-106D	0.001021	0.0004466	0.032	No	4	0.001157	0.0009039	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.002061	0.0002441	0.032	No	4	0.001153	0.0004001	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00061	0.032	No	4	0.002203	0.001806	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-111D	0.0008753	0.0003847	0.032	No	5	0.000978	0.0008622	20	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	B-56	0.05424	0.03896	0.032	Yes	5	0.0466	0.004561	0	None	No	0.01	Param.
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	8	0.001951	0.001016	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	B-63	0.05187	0.03613	0.032	Yes	6	0.044	0.005727	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.013	0.004798	0.032	No	6	0.008483	0.003955	16.67	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002764	0.0005955	0.032	No	7	0.001914	0.0009245	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006994	0.001092	0.032	No	7	0.004043	0.002485	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.02028	0.005788	0.032	No	6	0.01303	0.005274	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.02345	0.0009922	0.032	No	6	0.008367	0.009138	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	B-93	0.06769	0.06065	0.032	Yes	6	0.06417	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.0048	0.0025	0.032	No	4	0.003075	0.00115	75	None	No	0.0625	NP (NDs)
Cobalt (mg/L)	DGWC-10	0.2	0.086	0.032	Yes	15	0.1501	0.04897	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	15	0.001482	0.0008885	40	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	17	0.008706	0.009703	11.76	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	15	0.002085	0.0008588	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	16	0.003519	0.00577	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02676	0.02009	0.032	No	16	0.02287	0.006278	6.25	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05338	0.04952	0.032	Yes	16	0.05145	0.002973	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0284	0.0055	0.032	No	16	0.01676	0.01166	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-20	0.6741	0.4755	0.032	Yes	16	0.5821	0.1636	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.009705	0.008358	0.032	No	16	0.008556	0.002085	12.5	None	x^5	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009815	0.007486	0.032	No	16	0.008469	0.002183	12.5	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00039	0.032	No	16	0.001752	0.001348	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	15	0.002013	0.0008717	13.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.0426	0.01599	0.032	No	16	0.02929	0.02045	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3773	0.2515	0.032	Yes	16	0.3144	0.09666	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4998	0.3952	0.032	Yes	16	0.4475	0.08036	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	15	0.02775	0.01072	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.08457	0.04108	0.032	Yes	15	0.06283	0.03209	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2031	0.1476	0.032	Yes	16	0.1754	0.04258	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5	No	5	0.782	0.4357	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-101D	2.694	0.8511	5	No	4	1.773	0.4058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.628	5	No	5	1.002	0.4775	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-104D	18.51	8.768	5	Yes	5	13.64	2.907	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-106D	1.147	0.2089	5	No	4	0.678	0.2066	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	2.685	0.1062	5	No	4	1.396	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	2.507	0.02236	5	No	4	1.265	0.5472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.75	6.021	5	Yes	4	12.39	2.804	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	13.54	2.882	5	No	5	8.21	3.18	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.434	0.6598	5	No	5	1.047	0.231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.951	1.275	5	No	7	1.613	0.2846	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	2.742	0.231	5	No	4	1.487	0.553	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5	No	4	0.6165	0.5008	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5	No	6	1.416	0.7269	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.101	0.2589	5	No	5	0.6798	0.2512	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5	No	6	0.6532	0.3977	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5	No	5	1.637	0.9496	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-93	2.013	0.4326	5	No	5	1.223	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.477	1.082	5	No	16	1.28	0.3039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.251	0.6895	5	No	16	0.9703	0.4315	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.227	0.4225	5	No	16	0.8885	0.691	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.462	0.9329	5	No	16	1.197	0.4063	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.075	0.6362	5	No	16	0.8554	0.337	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.478	0.5478	5	No	16	1.081	0.8576	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.026	0.5813	5	No	16	0.8038	0.342	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.005	0.4964	5	No	16	0.7509	0.3912	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.406	0.8744	5	No	16	1.14	0.4084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.501	0.8706	5	No	16	1.186	0.4842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.087	0.5598	5	No	16	0.8233	0.405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.319	0.6845	5	No	16	1.002	0.4877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.442	0.7588	5	No	16	1.1	0.5247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.684	1.161	5	No	16	1.422	0.4014	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.144	0.6427	5	No	16	0.8934	0.3853	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.824	1.669	5	No	16	2.247	0.8871	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.406	1.484	5	No	16	1.945	0.7088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.784	1.001	5	No	16	1.392	0.6017	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.816	0.4664	5	No	16	0.6412	0.2687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.405	0.9357	5	No	16	1.171	0.3608	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-101D	0.1	0.051	4	No	4	0.064	0.02401	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-102D	0.1115	0.05295	4	No	5	0.0822	0.01746	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.5246	0.2354	4	No	5	0.38	0.08631	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.1	0.052	4	No	4	0.06475	0.02354	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-109D	0.1993	0.08574	4	No	4	0.1425	0.025	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.6099	0.2341	4	No	5	0.422	0.1121	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.3525	0.06269	4	No	5	0.2076	0.08648	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	7	0.1731	0.1226	0	None	No	0.008	NP (normality)
Fluoride, total (mg/L)	B-63	0.45	0.12	4	No	4	0.2325	0.1486	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-66	0.51	0.12	4	No	4	0.2875	0.1656	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	6	0.09567	0.008802	66.67	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No	5	0.1104	0.05423	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-83	0.11	0.03719	4	No	6	0.08617	0.02915	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.4115	0.2725	4	No	5	0.342	0.04147	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.858	1.374	4	No	17	1.616	0.3859	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	16	0.08163	0.02569	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.085	4	No	17	0.1549	0.1411	35.29	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.203	0.0833	4	No	16	0.1511	0.1082	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.06	4	No	17	0.08671	0.02582	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	17	0.1051	0.04225	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.219	0.08606	4	No	17	0.1978	0.1524	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.4699	0.1718	4	No	17	0.3588	0.3073	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	17	0.1404	0.1539	41.18	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-20	0.9847	0.4388	4	No	17	0.7118	0.4356	5.882	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	17	0.1066	0.06454	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	17	0.1174	0.06341	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-23	0.2156	0.09287	4	No	17	0.1802	0.1523	11.76	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	17	0.1342	0.1722	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	17	0.09294	0.02114	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.115	0.5252	4	No	17	0.82	0.4704	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.156	0.6086	4	No	17	0.8824	0.437	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6778	0.2217	4	No	16	0.5431	0.4512	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.355	0.09666	4	No	16	0.2751	0.2307	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.378	0.9813	4	No	17	1.179	0.3162	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0002658	0.00007745	0.015	No	5	0.0004956	0.0004626	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	4	0.0007663	0.0004675	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	5	0.0004292	0.0005211	40	None	No	0.031	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	5	0.0008102	0.0004244	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	4	0.000761	0.000478	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	5	0.0006218	0.0005179	60	None	No	0.031	NP (NDs)
Lead (mg/L)	B-56	0.0002446	0.00006493	0.015	No	5	0.0004822	0.0004754	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	5	0.000624	0.0005149	60	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	7	0.0007743	0.0005154	42.86	None	No	0.008	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	6	0.0005548	0.0004887	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	6	0.0005458	0.0004704	33.33	None	No	0.0155	NP (normality)
Lead (mg/L)	B-88	0.01033	0.00001383	0.015	No	5	0.003272	0.004927	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	5	0.000648	0.000482	60	None	No	0.031	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	15	0.0006521	0.0004424	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	15	0.0006999	0.0004397	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	17	0.0008947	0.0002972	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	15	0.0008865	0.0003001	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	16	0.0008264	0.0003733	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	16	0.0007338	0.0004393	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	16	0.0006121	0.0004549	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	16	0.0007243	0.0004251	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	16	0.0005459	0.0004693	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	16	0.0007479	0.0003629	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	16	0.0006416	0.0004258	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	16	0.0009416	0.0002335	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	15	0.0007646	0.0004051	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004511	0.0001577	0.015	No	16	0.0008263	0.001188	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	16	0.001076	0.001068	31.25	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	16	0.001629	0.001139	12.5	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	15	0.0006252	0.0006613	40	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	15	0.0006521	0.0004097	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	16	0.00085	0.0003235	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003016	0.001264	0.04	No	5	0.00214	0.0005225	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.017	0.006902	0.04	No	4	0.01195	0.002223	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01538	0.01102	0.04	No	5	0.0132	0.001304	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04001	0.03494	0.04	No	5	0.0376	0.001517	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-106D	0.006141	0.004509	0.04	No	4	0.005325	0.0003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01811	0.01239	0.04	No	4	0.01525	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01692	0.01258	0.04	No	4	0.01475	0.0009574	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01711	0.01139	0.04	No	4	0.01425	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.03138	0.01862	0.04	No	5	0.025	0.003808	0	None	No	0.01	Param.
Lithium (mg/L)	B-56	0.006196	0.004724	0.04	No	5	0.00546	0.0004393	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	8	0.009375	0.002345	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	6	0.0078	0.00353	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	5	0.01215	0.006382	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	B-77	0.004192	0.0008941	0.04	No	7	0.006021	0.00628	28.57	Kaplan-Meier	x^(1/3)	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-82	0.004158	0.0006351	0.04	No	6	0.001987	0.001394	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-83	0.004017	0.001316	0.04	No	6	0.002667	0.0009832	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	5	0.00898	0.01143	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	5	0.0116	0.0008944	0	None	No	0.031	NP (normality)
Lithium (mg/L)	DGWC-10	0.006718	0.002851	0.04	No	15	0.00538	0.004126	13.33	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	15	0.003113	0.003305	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	17	0.01089	0.006559	70.59	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	15	0.0048	0.004151	13.33	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	16	0.004694	0.002975	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	15	0.006173	0.0008681	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	16	0.009782	0.006959	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	16	0.003937	0.002958	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	16	0.04749	0.02995	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	16	0.006756	0.005599	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0063	0.0057	0.04	No	16	0.006512	0.002288	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	16	0.004737	0.00277	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0118	0.003707	0.04	No	16	0.01111	0.01783	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0038	0.0025	0.04	No	15	0.003787	0.003138	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01251	0.00968	0.04	No	16	0.01109	0.002172	6.25	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07348	0.05756	0.04	Yes	16	0.06552	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1258	0.1063	0.04	Yes	16	0.1161	0.015	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.00808	0.004375	0.04	No	15	0.006373	0.002953	6.667	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.006975	0.004221	0.04	No	15	0.005847	0.002818	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02929	0.02363	0.04	No	16	0.02646	0.004347	6.25	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	5	0.0001758	0.00005411	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	5	0.0001788	0.0000474	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	6	0.000185	0.00003674	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	5	0.000162	0.00005215	60	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-93	0.0002837	0.00006508	0.002	No	5	0.0001896	0.00006626	20	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	15	0.0001681	0.00005494	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	17	0.0001568	0.00006349	64.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	15	0.000184	0.00004239	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	16	0.0001441	0.00006323	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	16	0.0001737	0.00005726	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	16	0.0002046	0.000126	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	16	0.0001781	0.00004708	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	16	0.0001606	0.00006202	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	16	0.0001697	0.00005593	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001952	0.000126	0.002	No	16	0.0001862	0.00005548	31.25	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	15	0.0002068	0.000115	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	16	0.00019	0.00004	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002535	0.0001262	0.002	No	15	0.0001983	0.0001154	13.33	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	15	0.0001527	0.00006222	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	16	0.0001851	0.00008525	43.75	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	4	0.00805	0.0039	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	5	0.006406	0.004923	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002608	0.0003417	0.1	No	4	0.001475	0.0004992	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	5	0.00716	0.003317	0	None	No	0.031	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	5	0.00666	0.004575	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	5	0.00648	0.00482	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02437	0.01244	0.1	No	15	0.01892	0.009349	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	16	0.004912	0.00409	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01092	0.006853	0.1	No	16	0.008888	0.003128	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007089	0.004724	0.1	No	15	0.005907	0.001745	6.667	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	5	0.00438	0.001386	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	4	0.004525	0.00095	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	5	0.00394	0.001545	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	4	0.00415	0.0017	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-56	0.02912	0.003536	0.05	No	5	0.01412	0.008641	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	7	0.004529	0.001247	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	6	0.00345	0.001706	50	None	No	0.0155	NP (normality)
Selenium (mg/L)	B-83	0.0295	0.009895	0.05	No	6	0.0197	0.007137	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003306	0.001194	0.05	No	5	0.00308	0.001289	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-93	0.036	0.0063	0.05	No	5	0.01556	0.0123	0	None	No	0.031	NP (selected)
Selenium (mg/L)	DGWC-10	0.05073	0.02131	0.05	No	15	0.03602	0.02171	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	17	0.003994	0.00221	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004335	0.001931	0.05	No	15	0.00442	0.002391	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No	16	0.004062	0.002277	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	16	0.005112	0.001528	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008991	0.006416	0.05	No	16	0.007856	0.002312	12.5	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008721	0.005441	0.05	No	16	0.007081	0.002521	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0037	0.05	No	16	0.005062	0.001593	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06568	0.03434	0.05	No	16	0.05001	0.02408	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	16	0.004794	0.000825	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	15	0.00476	0.0009295	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01246	0.004865	0.05	No	16	0.008662	0.005836	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006784	0.0028	0.05	No	16	0.005769	0.00318	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04184	0.008956	0.05	No	15	0.03077	0.04124	6.667	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	15	0.004613	0.002068	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1254	0.0492	0.05	No	16	0.08729	0.05853	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003386	0.0001454	0.002	No	5	0.000242	0.00005762	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	6	0.0007015	0.0004624	66.67	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	6	0.0008453	0.0003789	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	5	0.00084	0.0003578	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00034	0.002	No	15	0.00048	0.0002241	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	17	0.0006275	0.0004591	58.82	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	16	0.0004356	0.0003933	31.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	16	0.0005456	0.0001339	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0009559	0.0005248	0.002	No	16	0.0009456	0.0004827	31.25	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	16	0.0007084	0.0004467	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	15	0.0009382	0.0002394	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	16	0.0007712	0.0004093	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	16	0.0003469	0.0002599	12.5	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	16	0.0007129	0.0004399	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	15	0.0008227	0.0003682	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	15	0.0003753	0.0003274	20	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	16	0.0007213	0.0002474	37.5	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

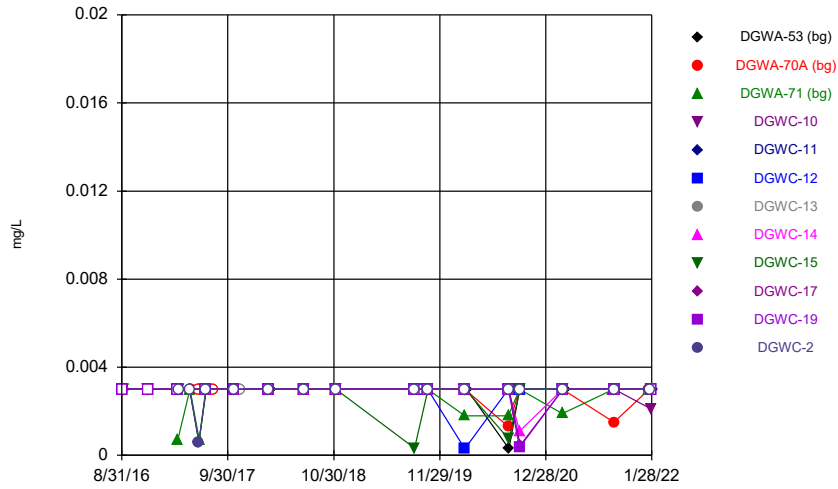
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	16	62.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-17	-58	No	16	87.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	23	53	No	15	80	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.0005672	5	58	No	16	6.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001569	-32	-58	No	16	31.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006697	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001058	-57	-58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004175	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001047	23	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.002989	-2	-8	No	4	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.003614	9	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-70A (bg)	0	5	58	No	16	50	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	20	53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-19	-0.0002359	-17	-58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	35	58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-104D	-0.07465	-4	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.006064	7	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003301	-8	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002296	-6	-14	No	6	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.04334	12	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-3.972	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-109D	3.172	2	8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.00009951	-11	-58	No	16	6.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	18	58	No	16	81.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001223	-45	-53	No	15	20	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

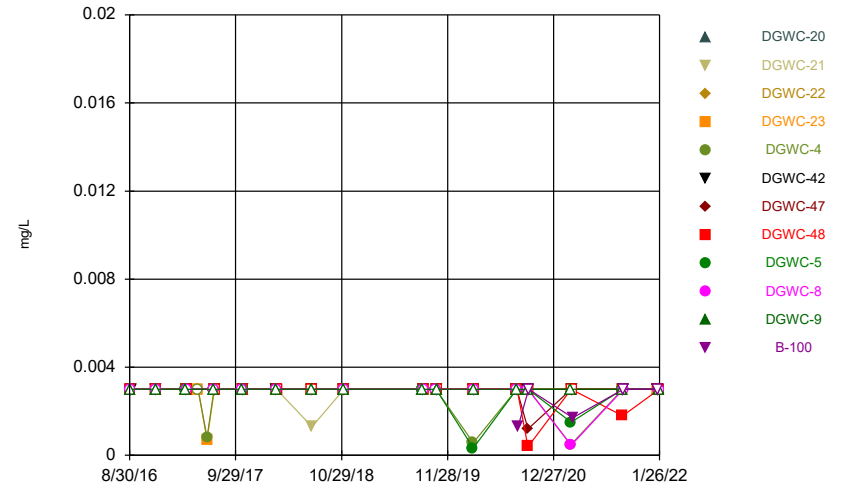
FIGURE A.

Time Series



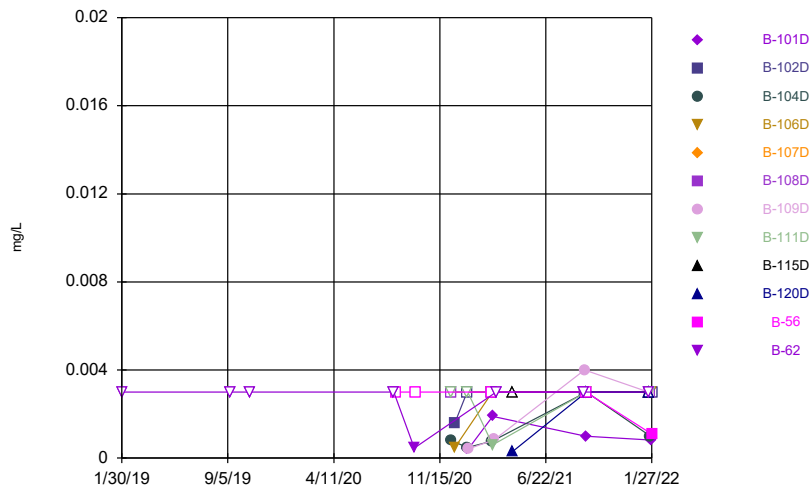
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



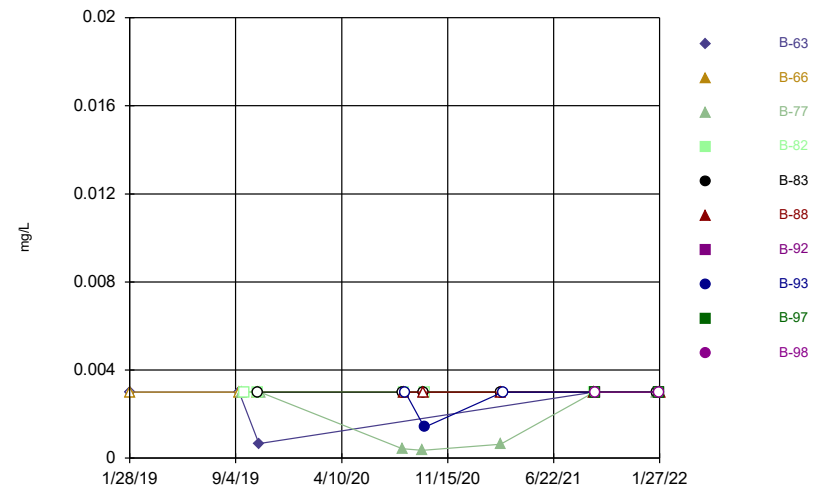
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Time Series



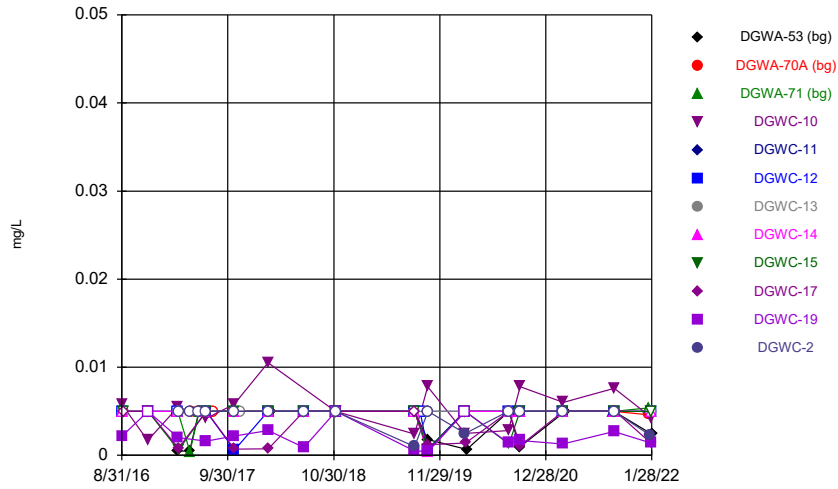
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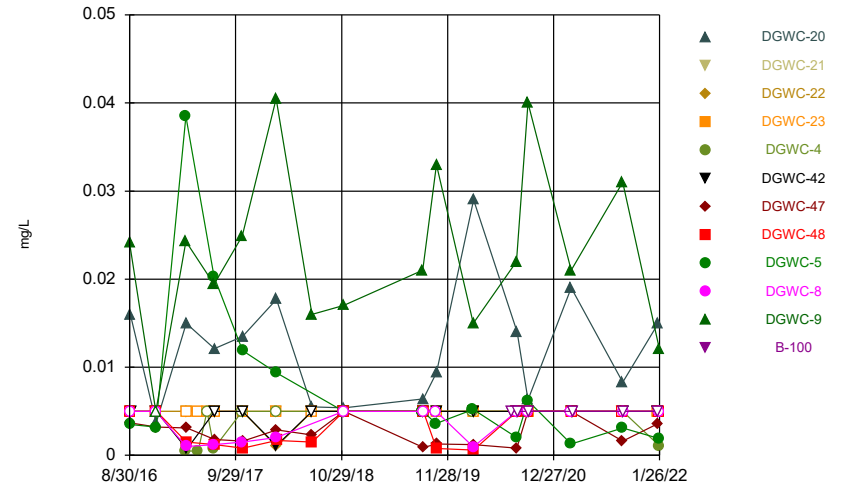
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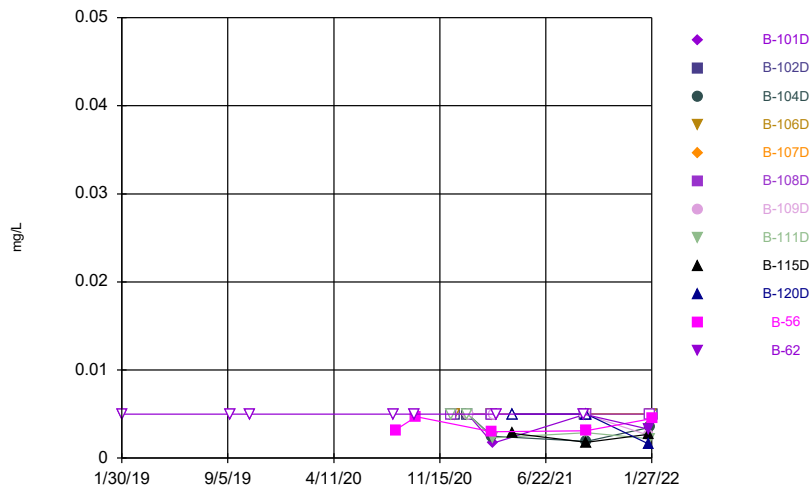
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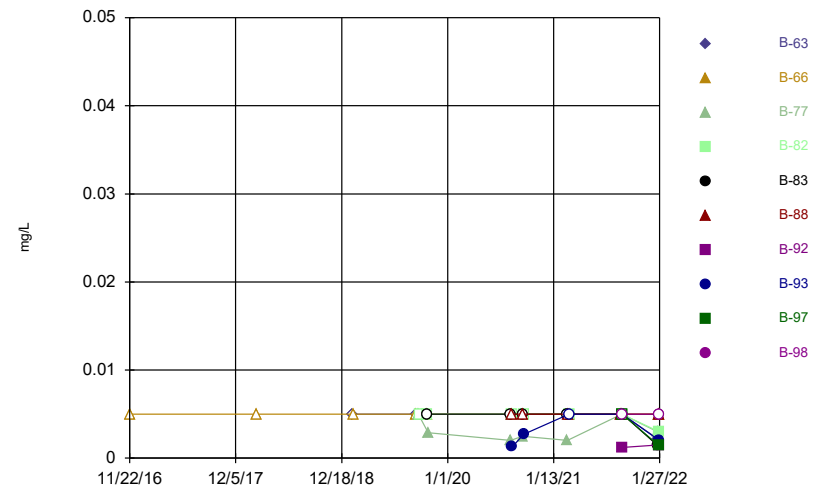
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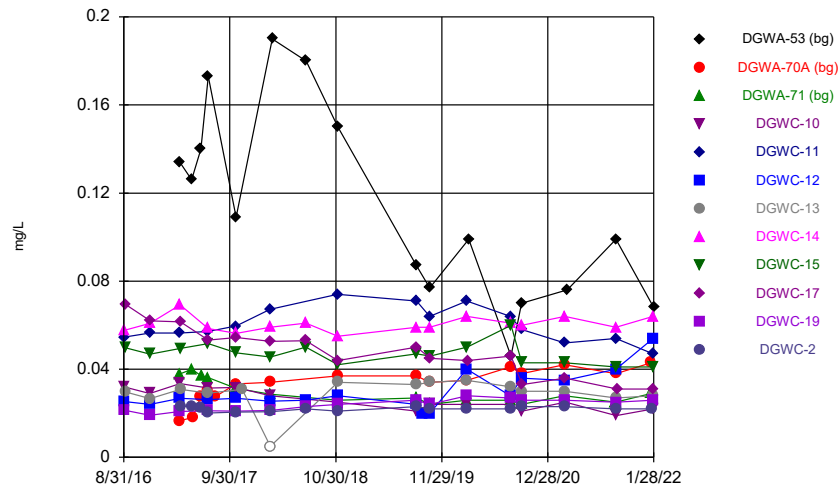
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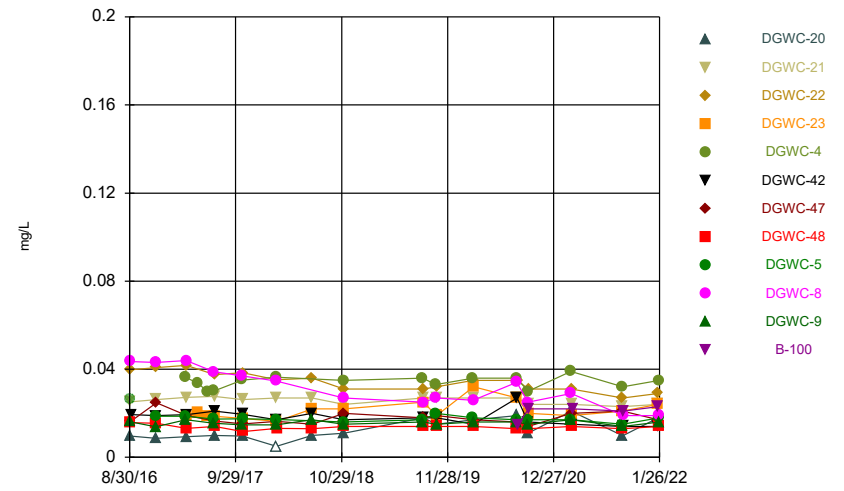
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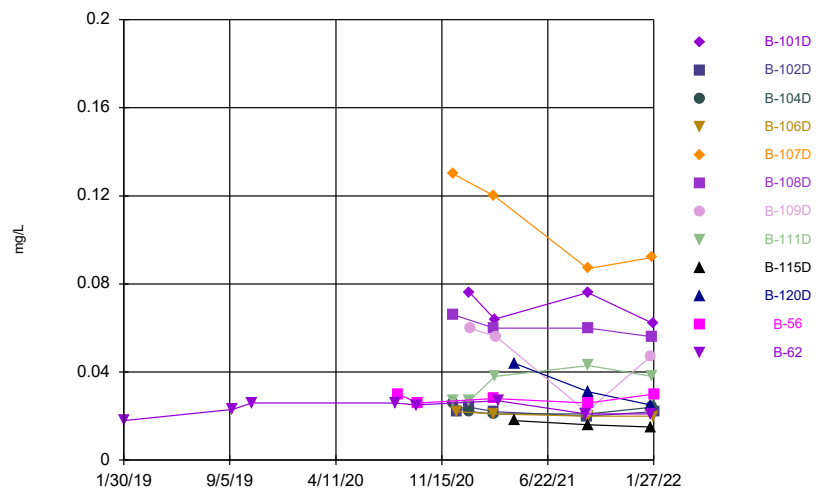
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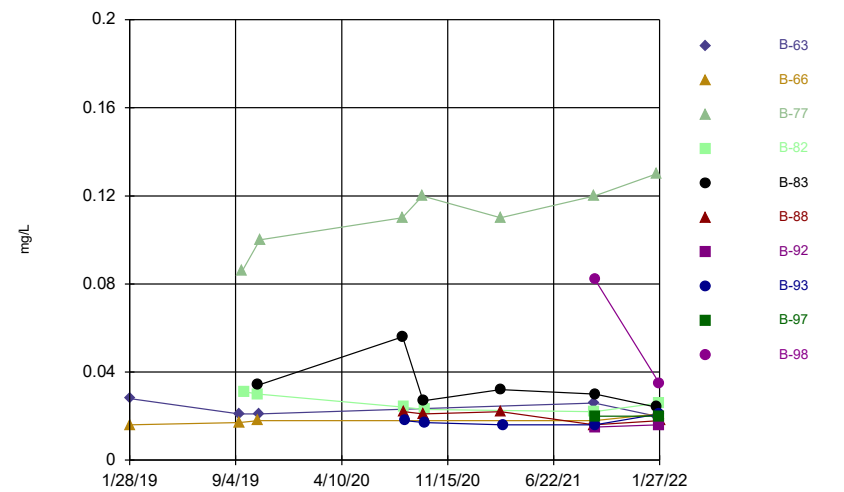
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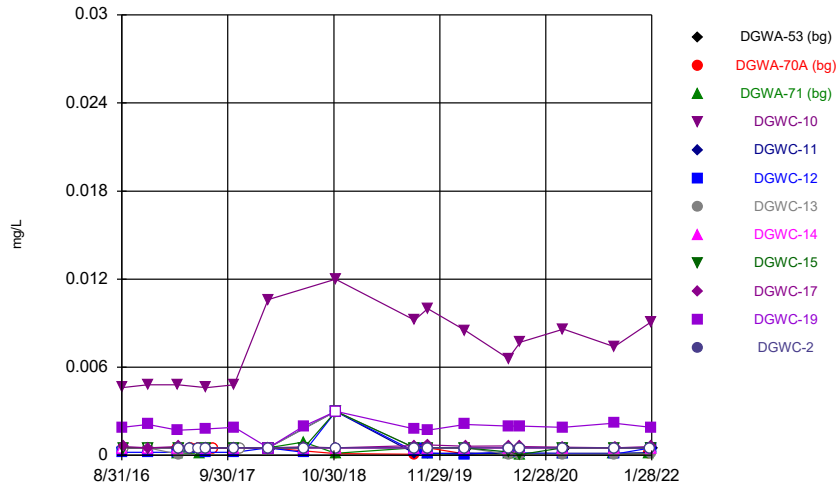
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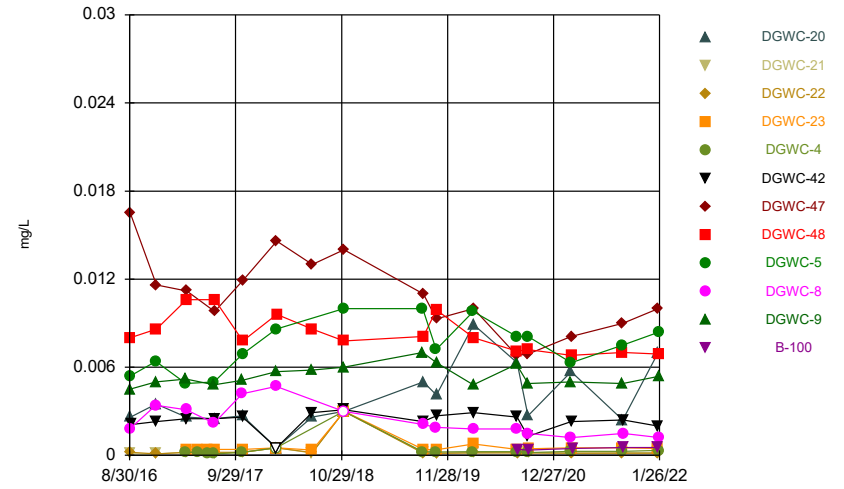
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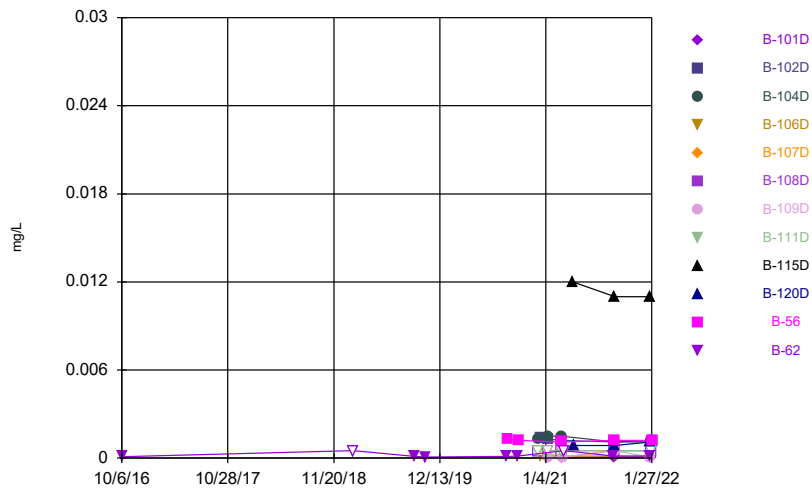
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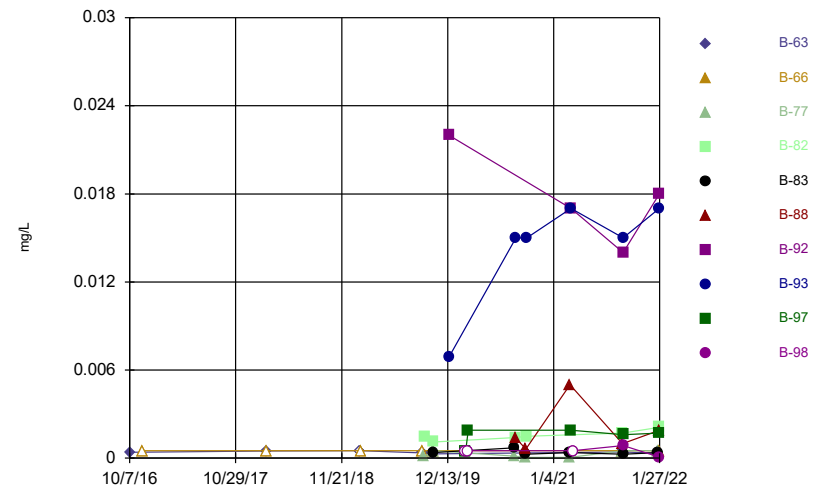
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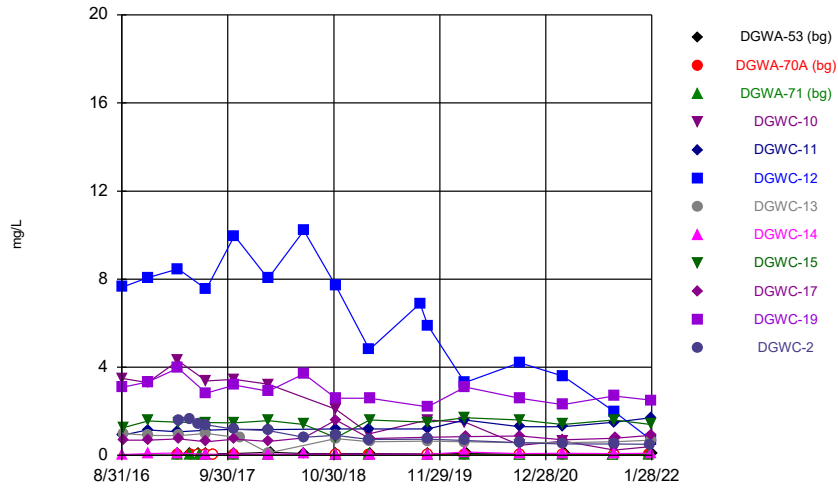
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Time Series



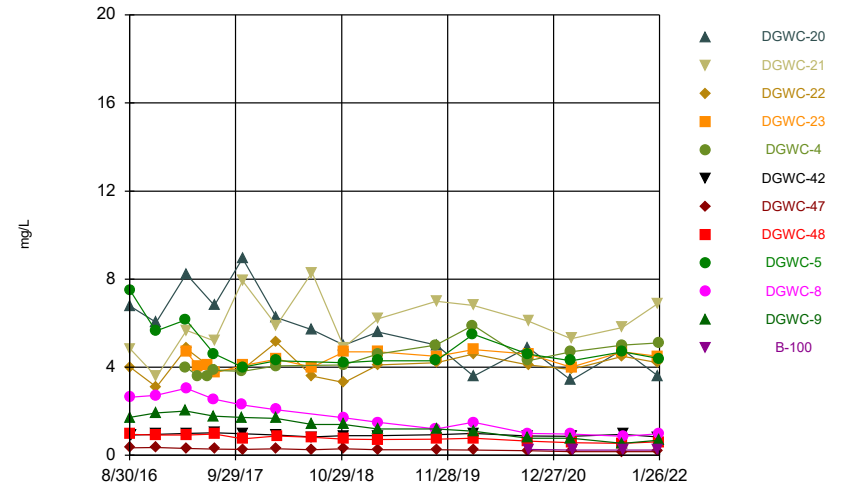
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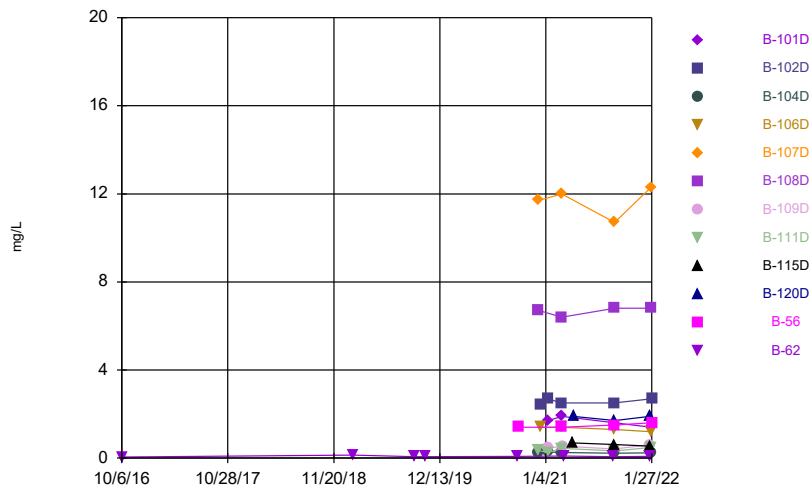
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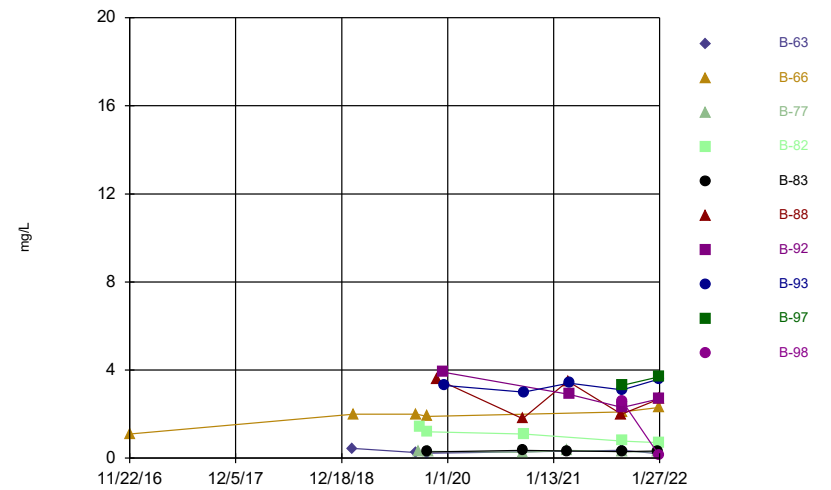
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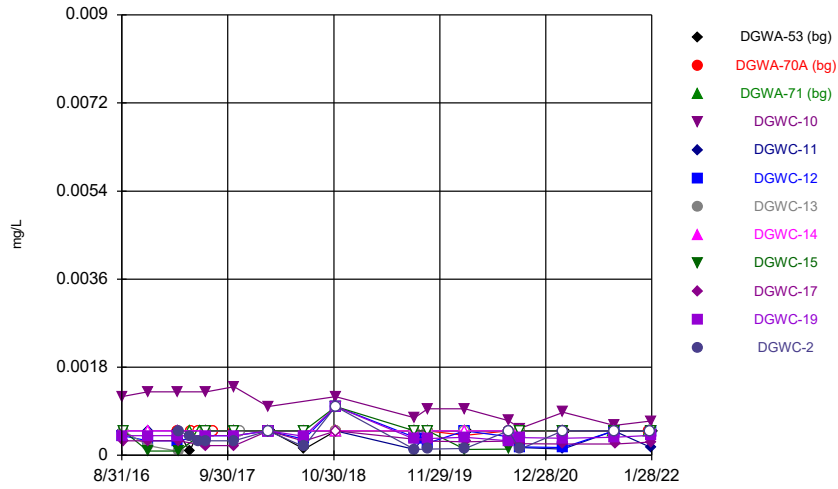
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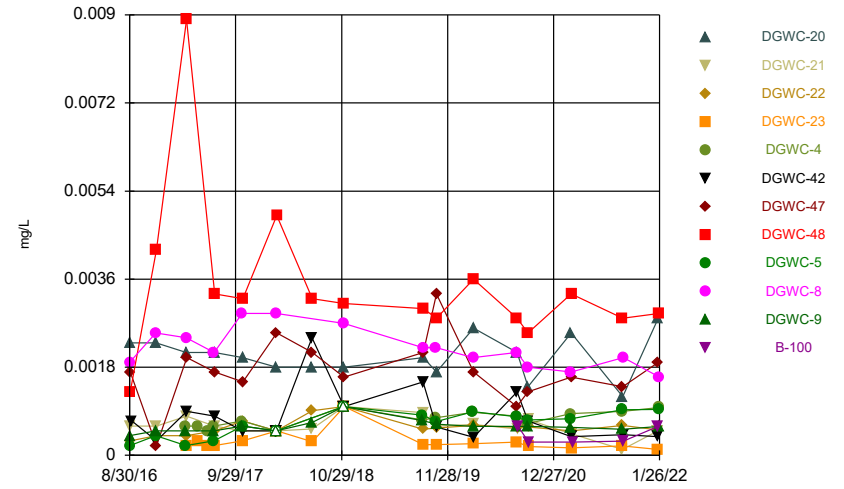
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Time Series



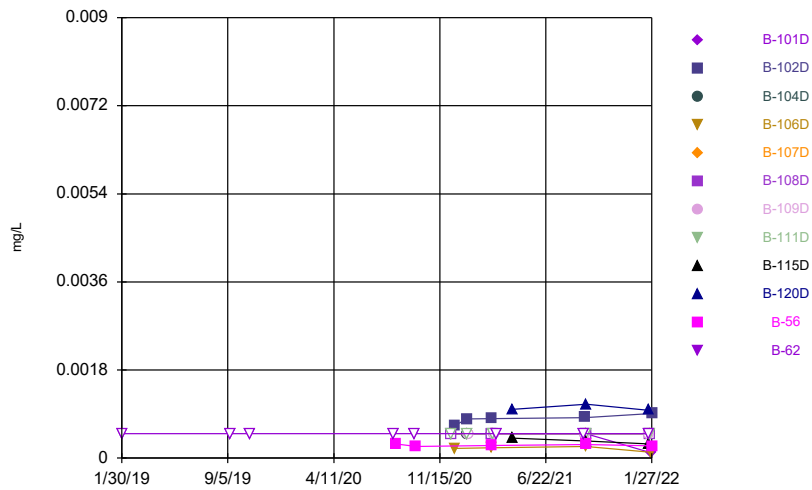
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Time Series



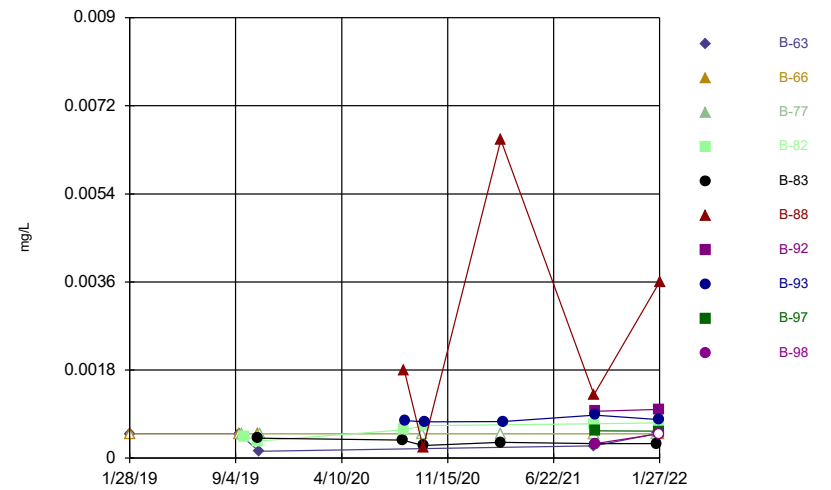
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Time Series



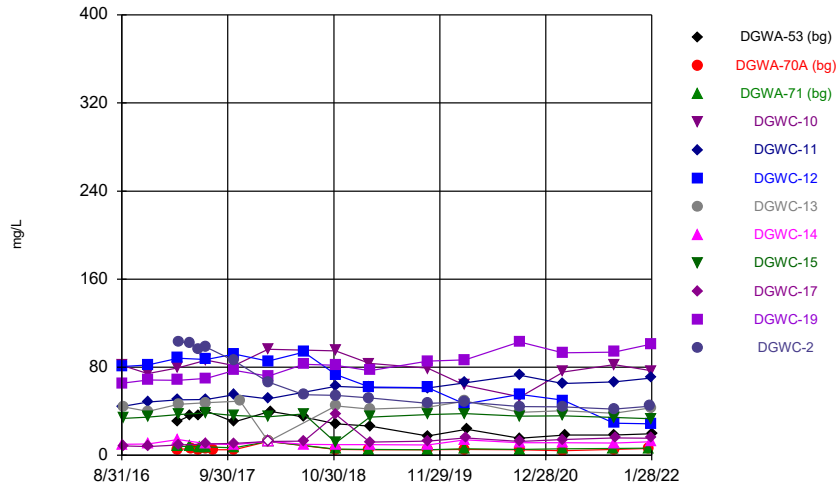
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Time Series



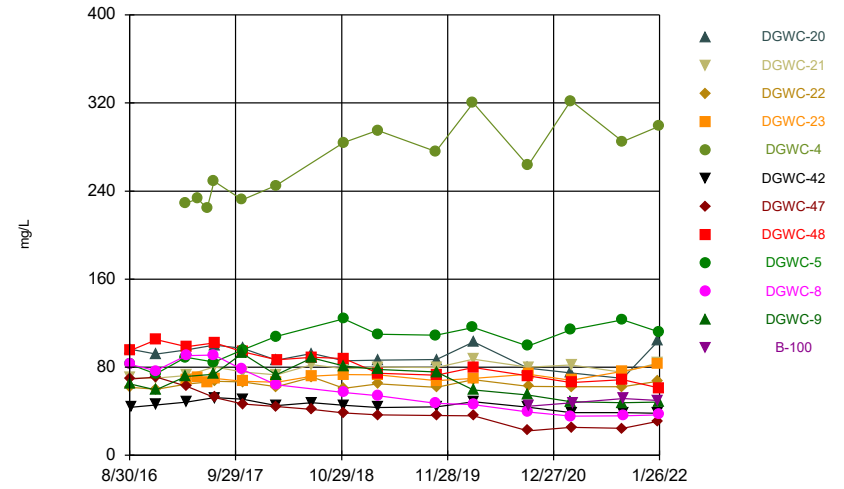
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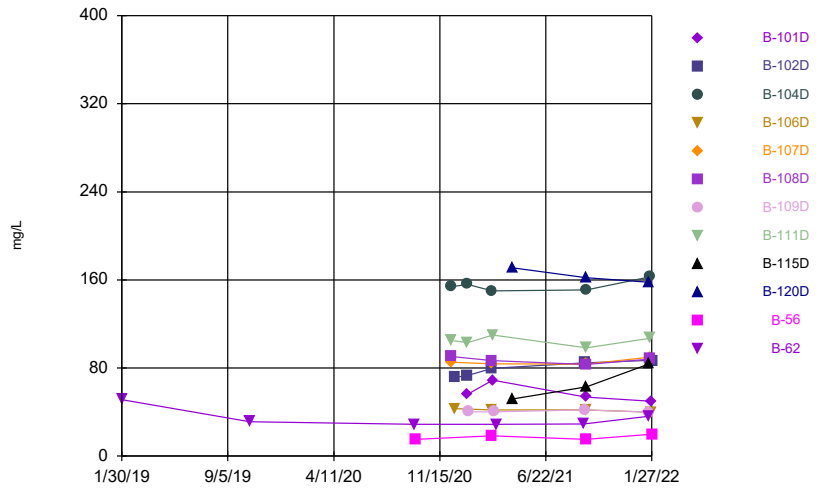
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Time Series



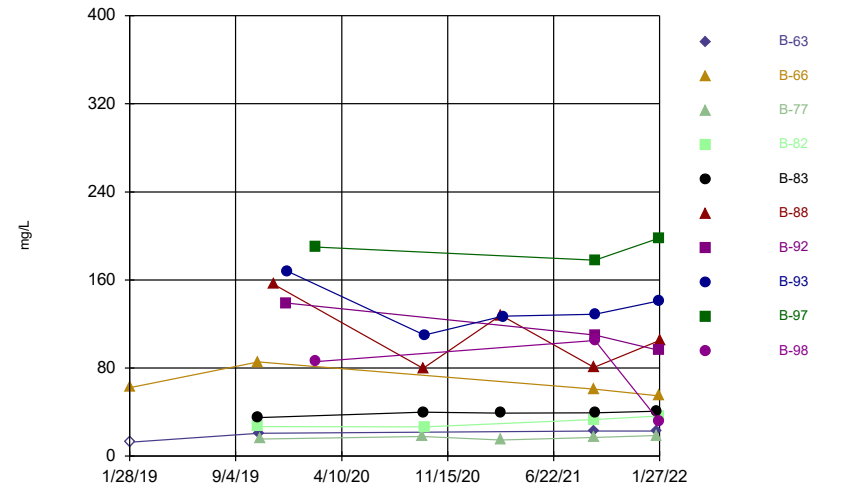
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Time Series



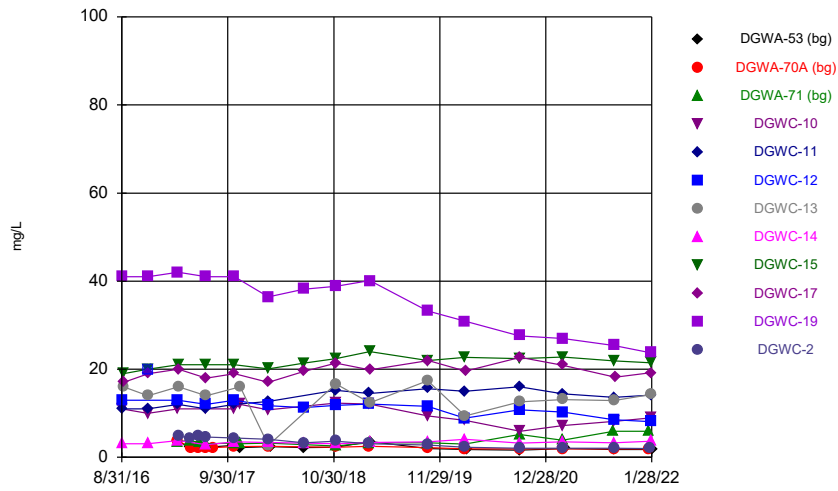
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Time Series



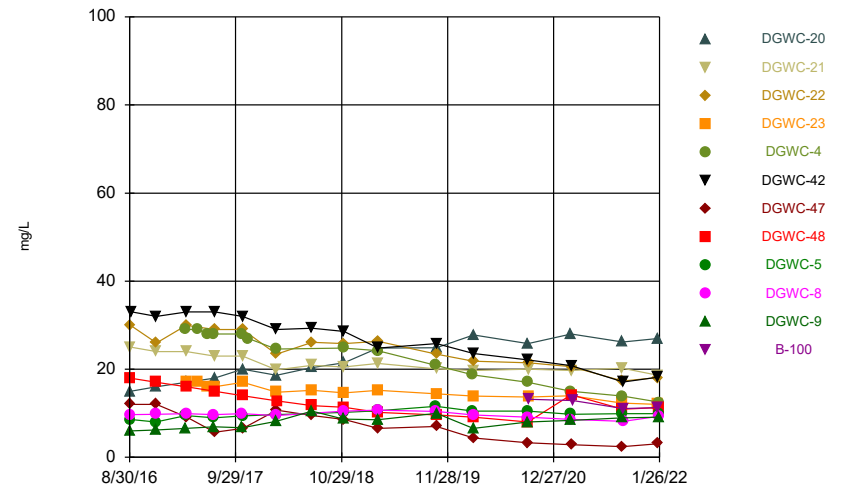
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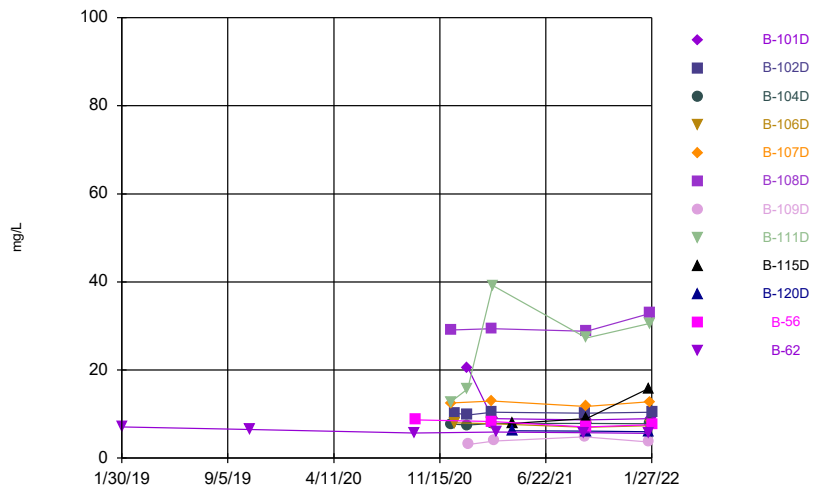
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Time Series



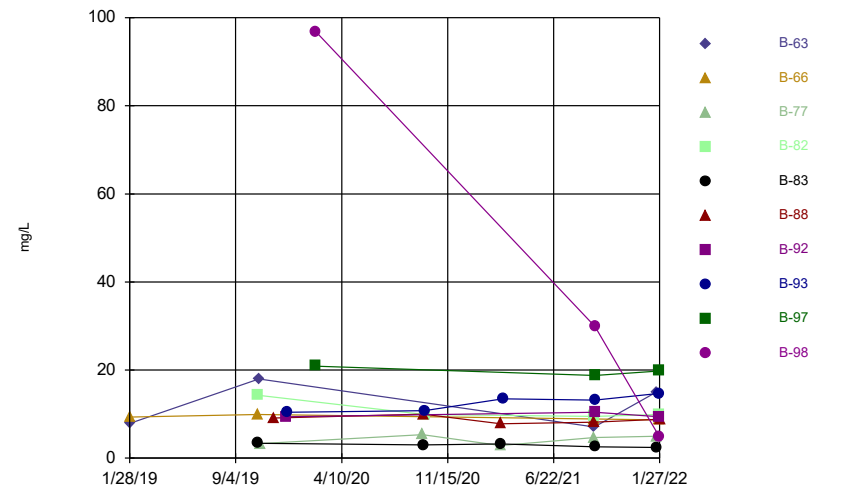
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Time Series



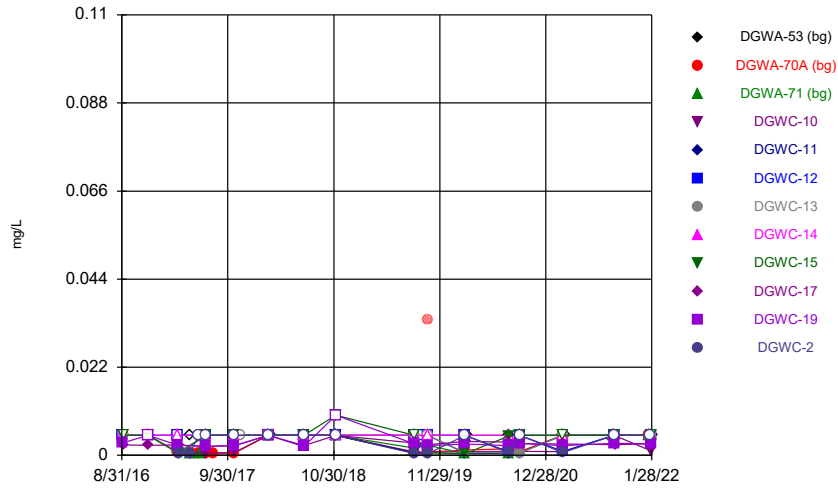
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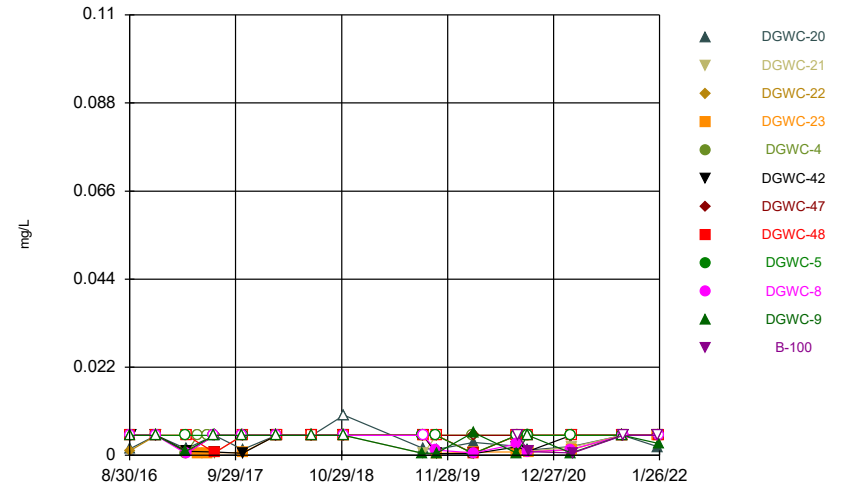
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Time Series



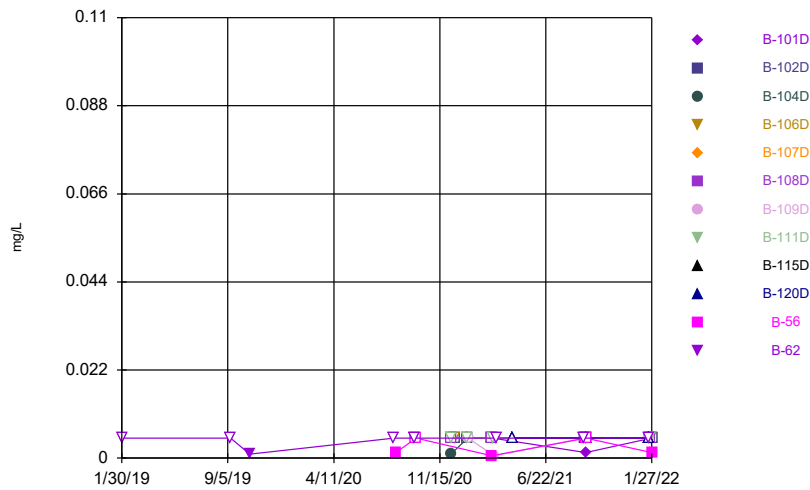
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



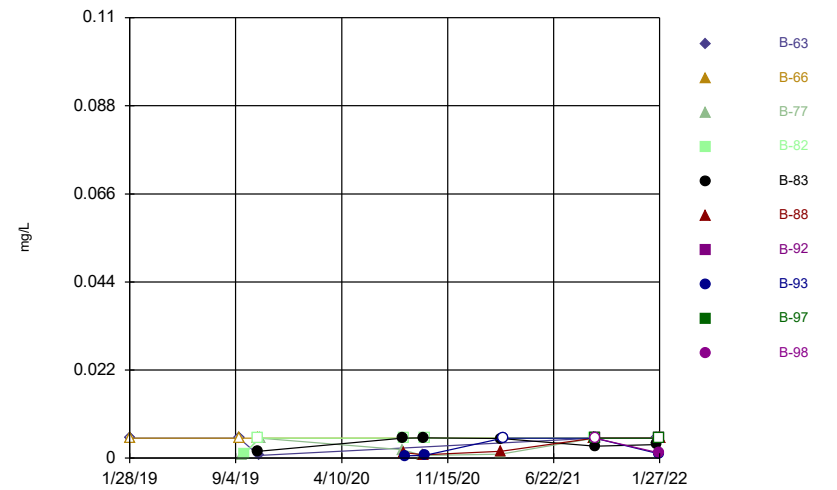
Constituent: Chromium Analysis Run 4/13/2022 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



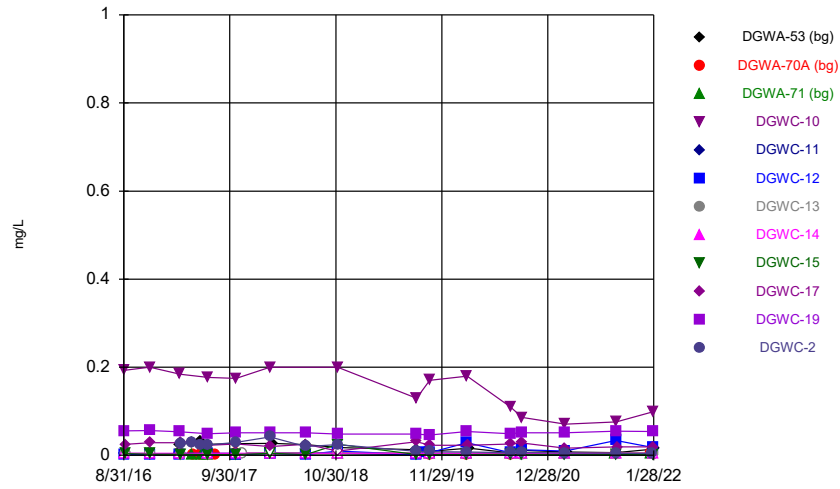
Constituent: Chromium Analysis Run 4/13/2022 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



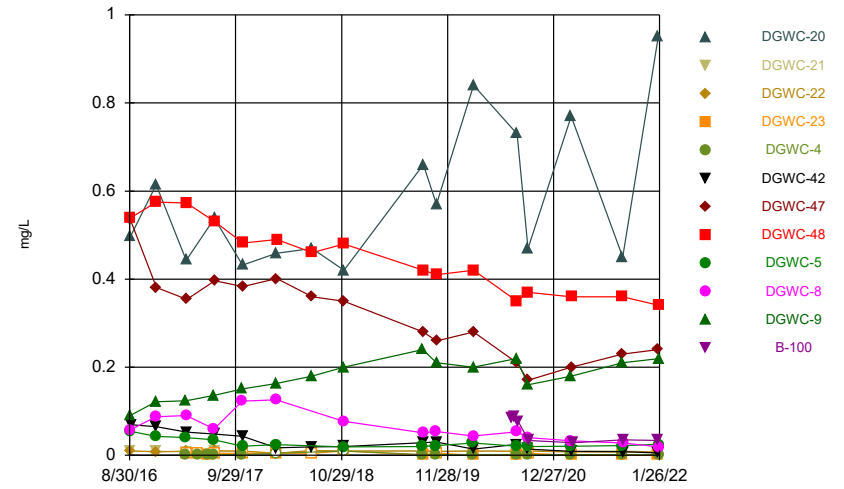
Constituent: Chromium Analysis Run 4/13/2022 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



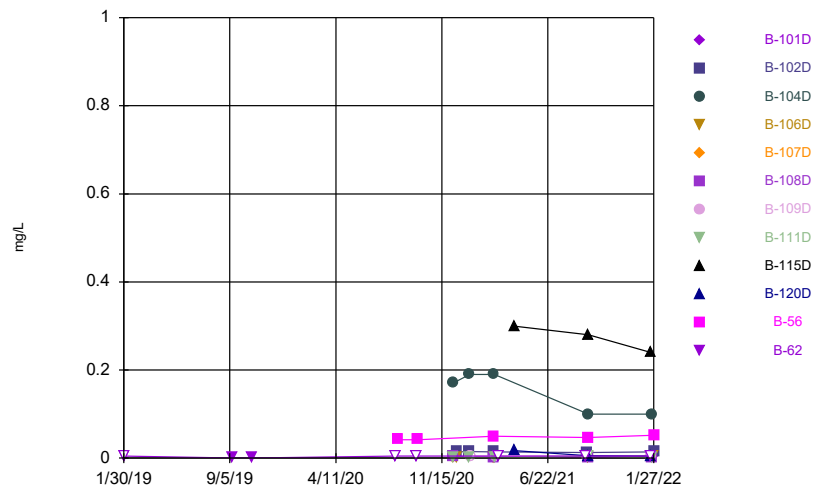
Constituent: Cobalt Analysis Run 4/13/2022 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



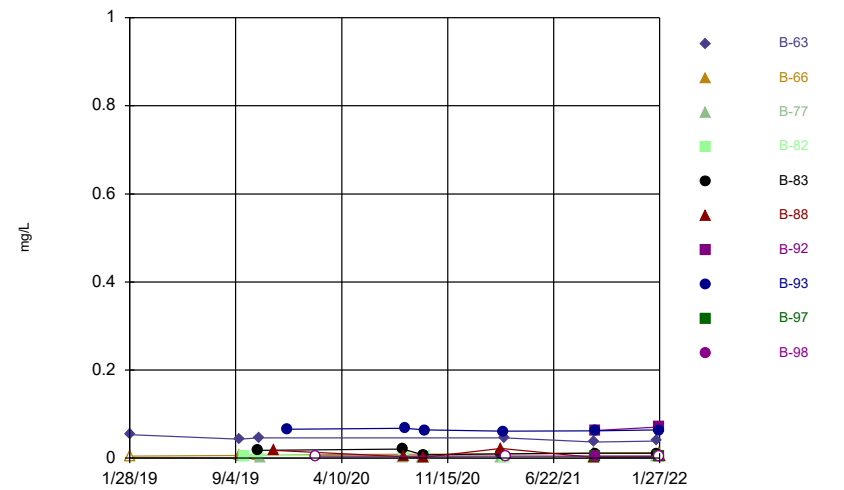
Constituent: Cobalt Analysis Run 4/13/2022 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



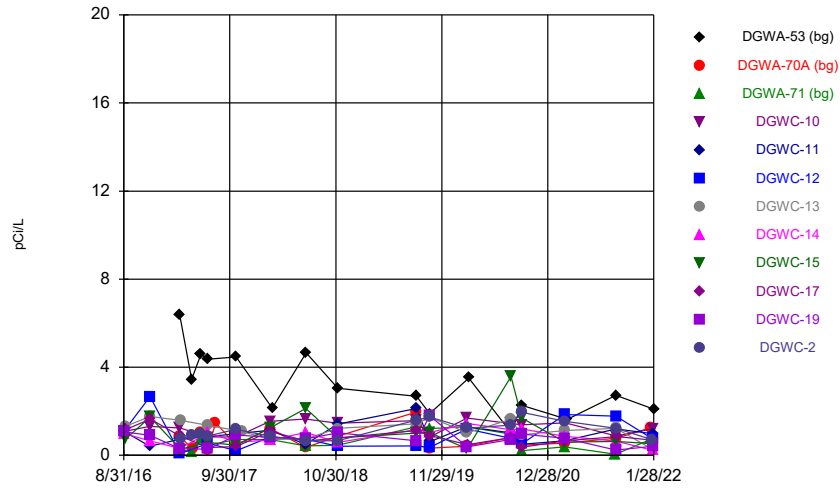
Constituent: Cobalt Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



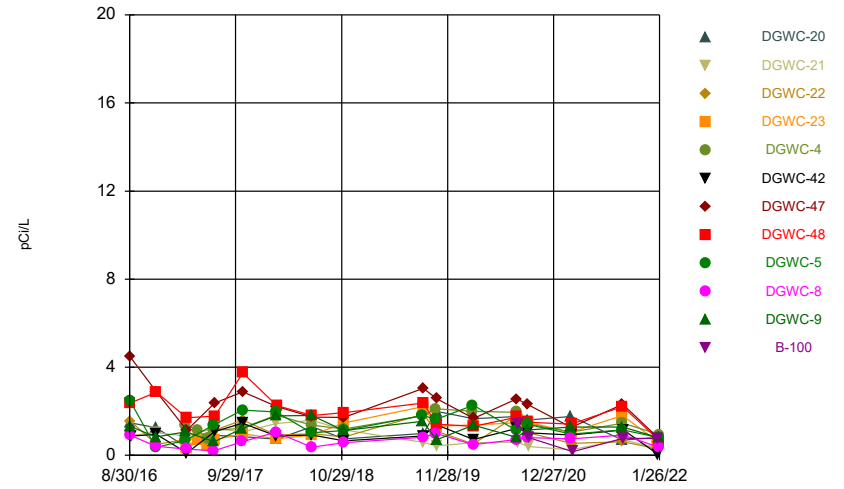
Constituent: Cobalt Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



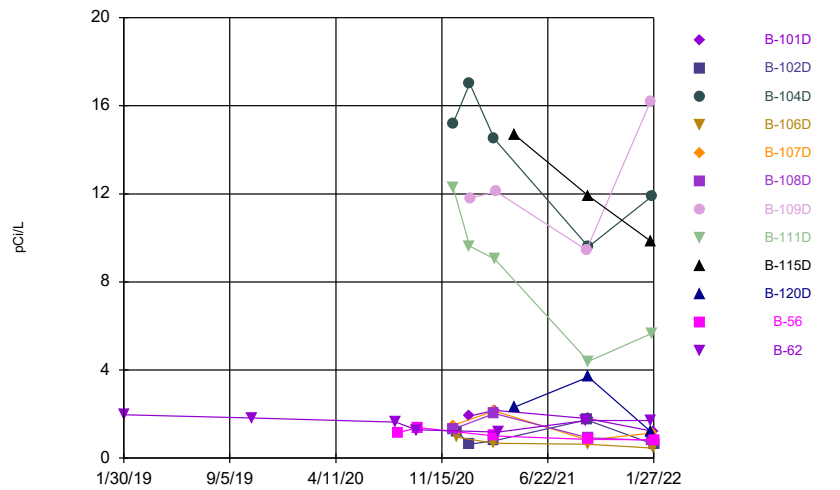
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



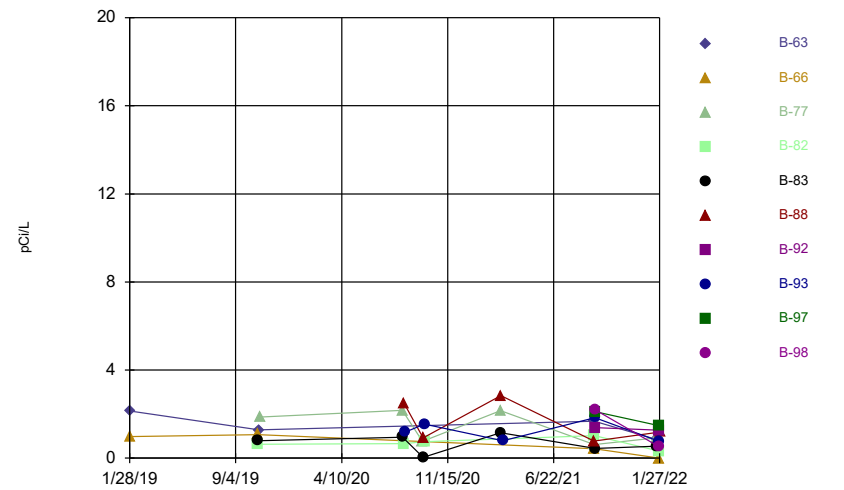
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



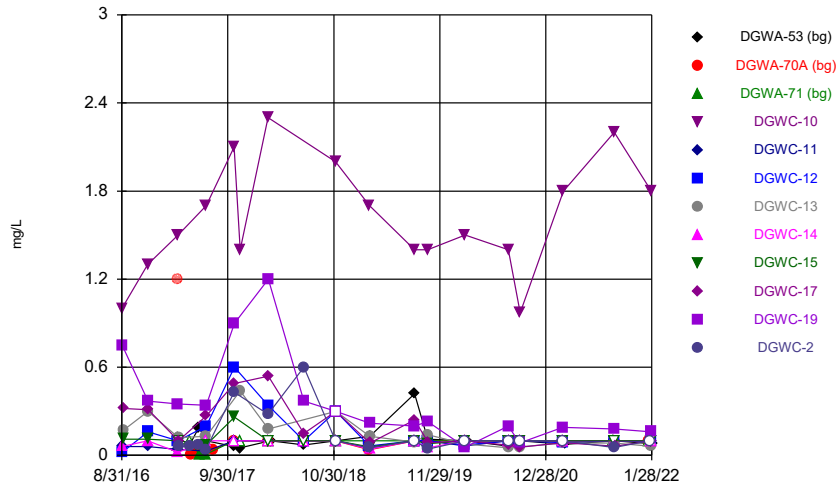
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



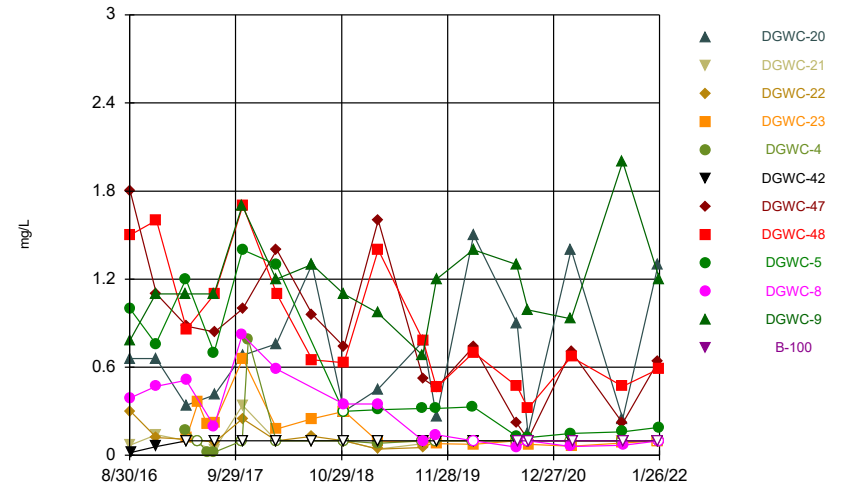
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



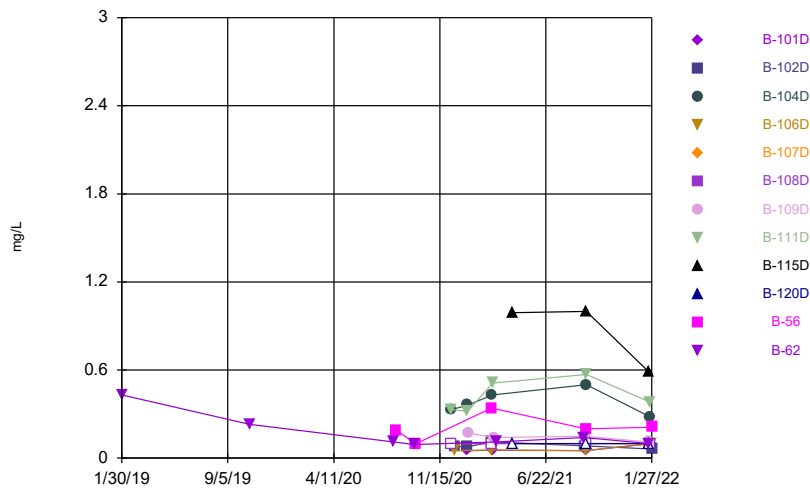
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



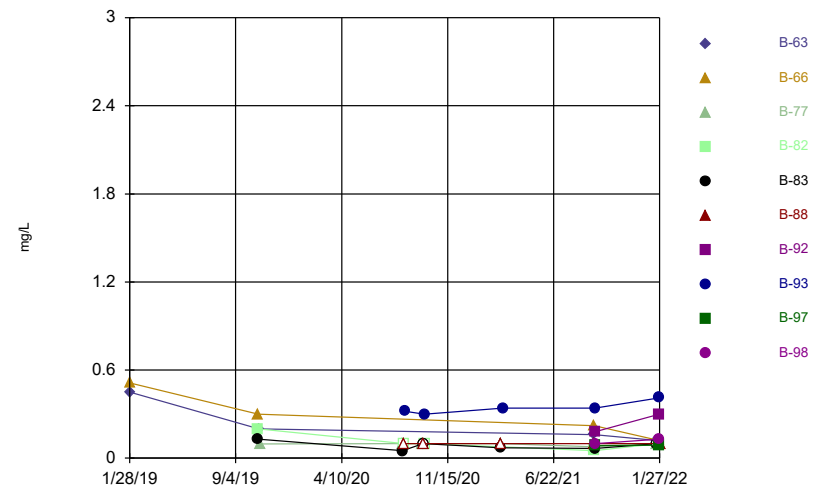
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



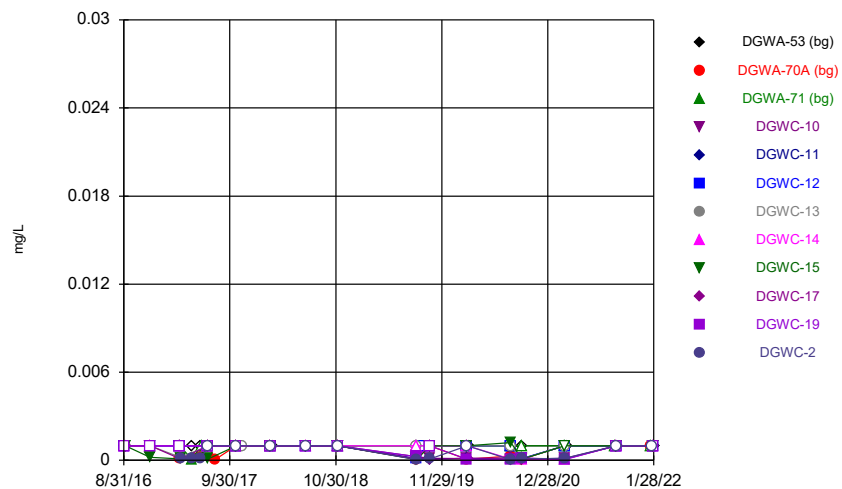
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



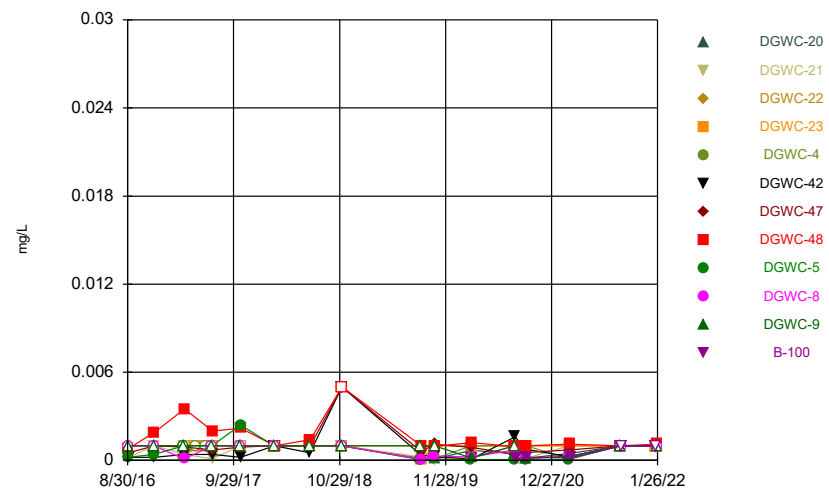
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



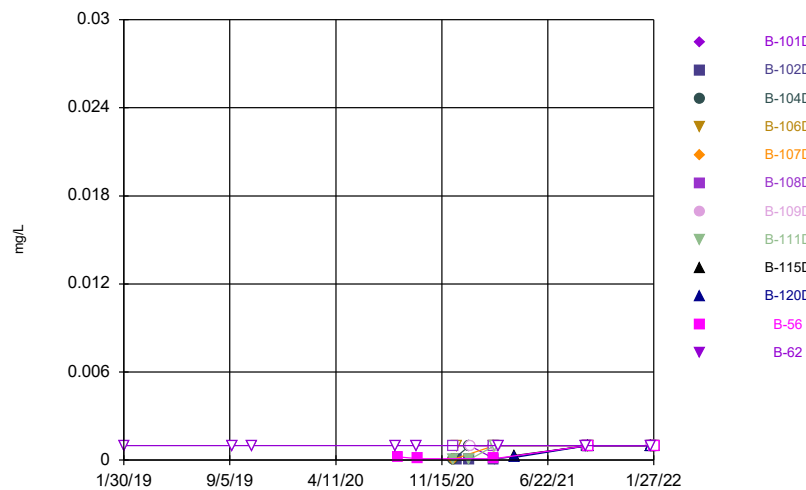
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



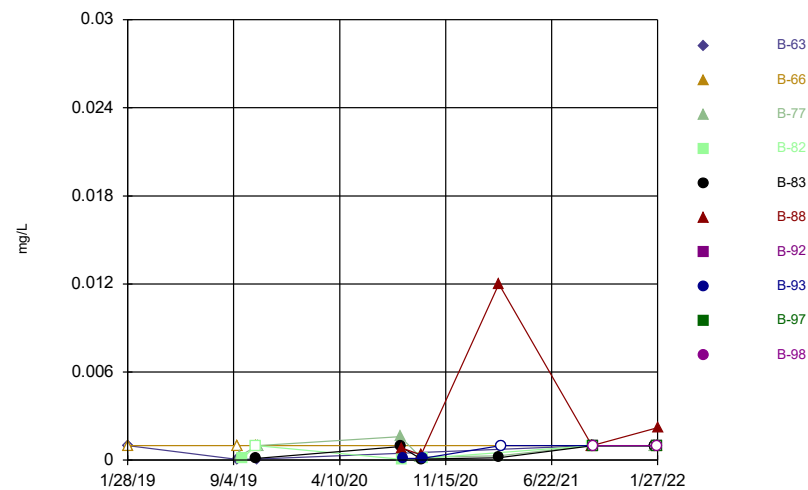
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



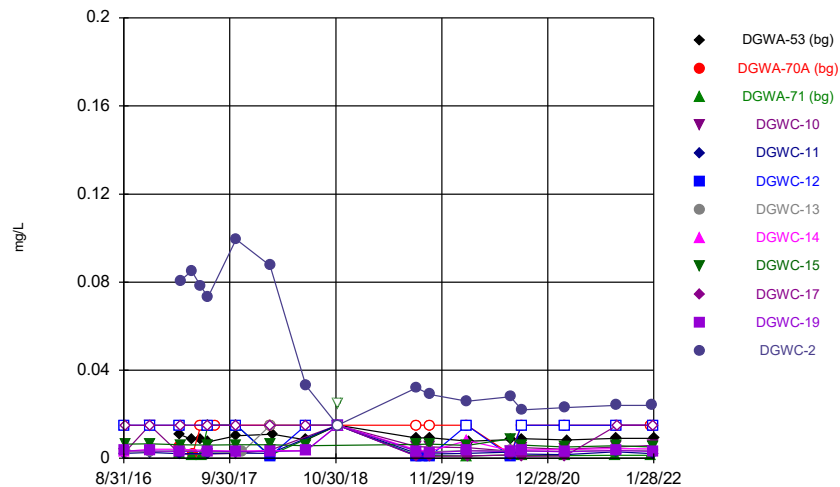
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



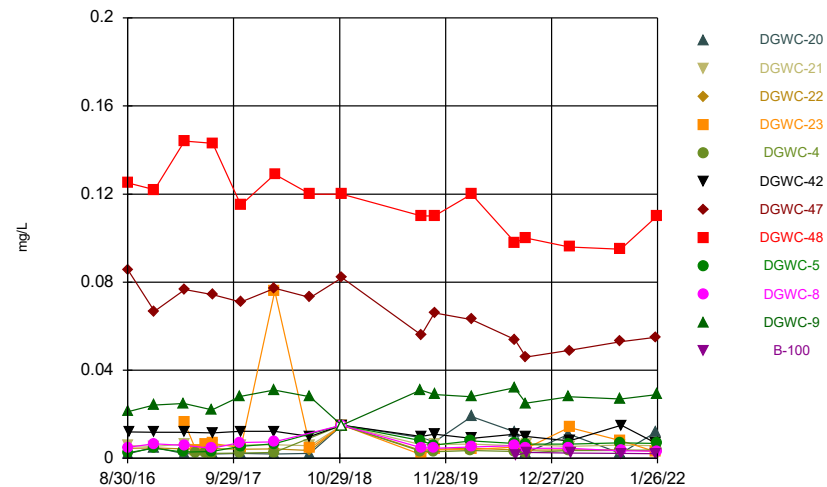
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



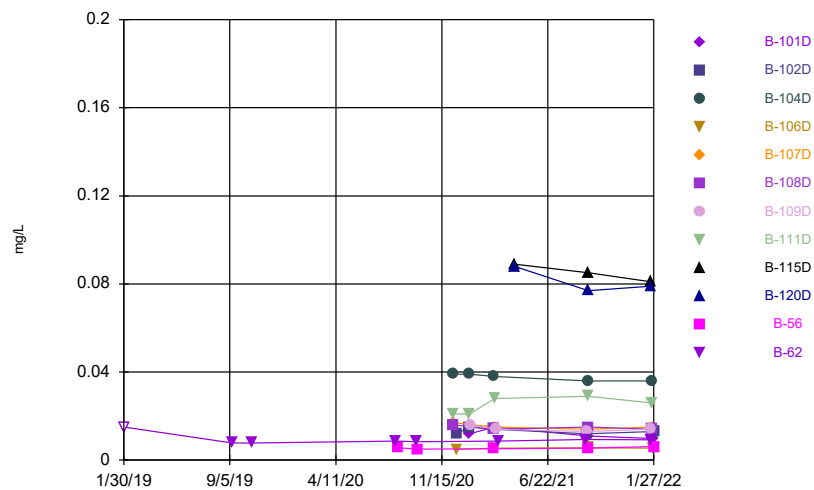
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



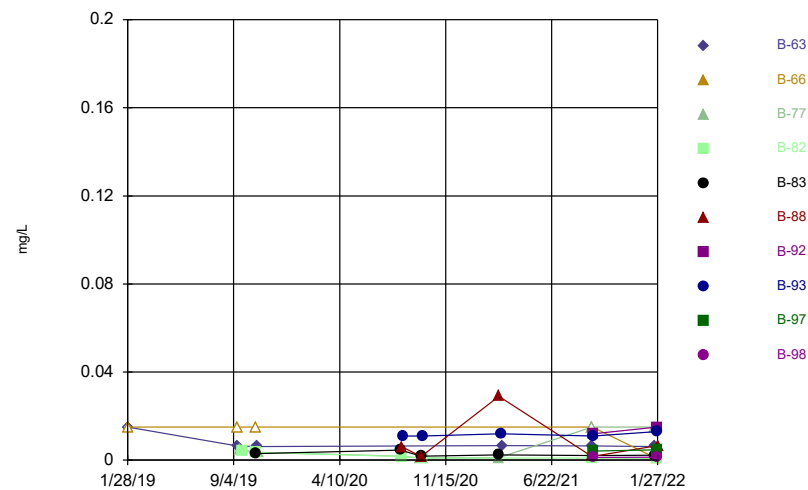
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



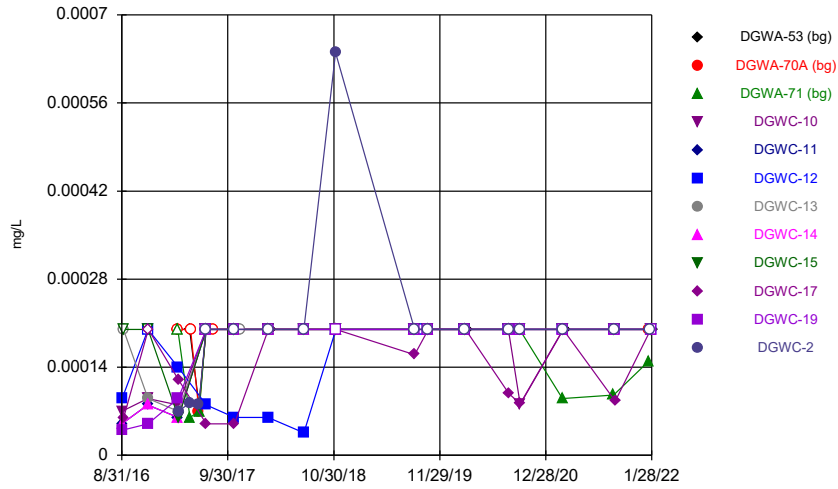
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



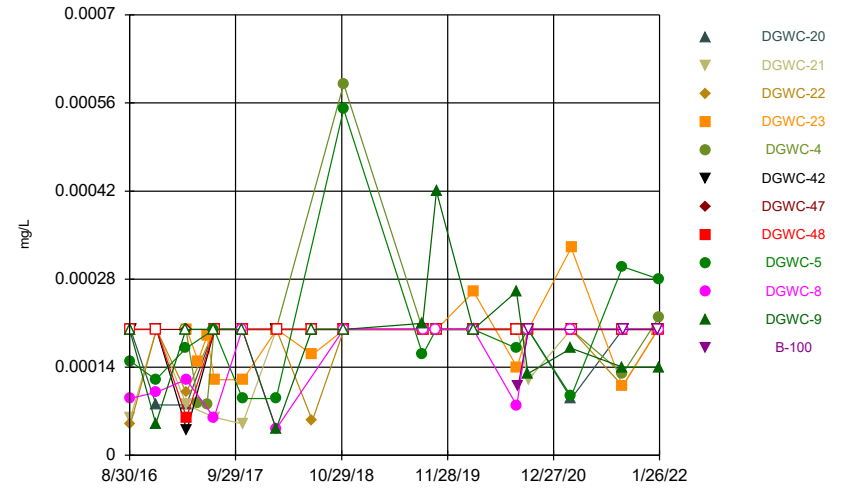
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



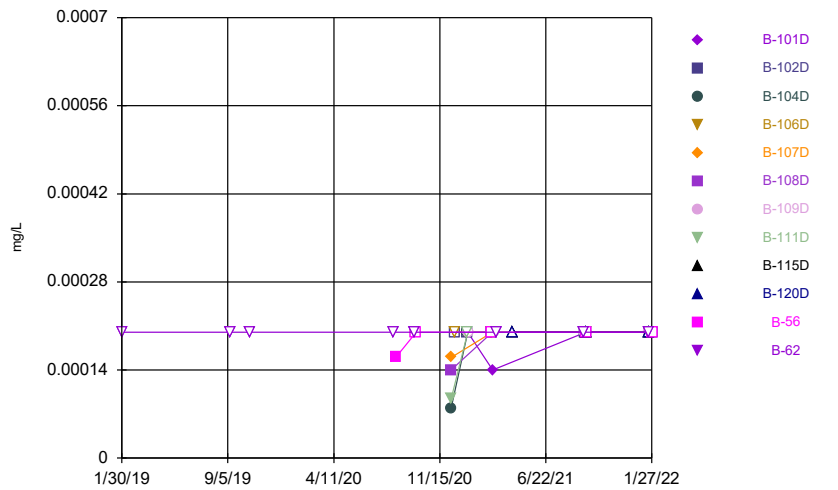
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



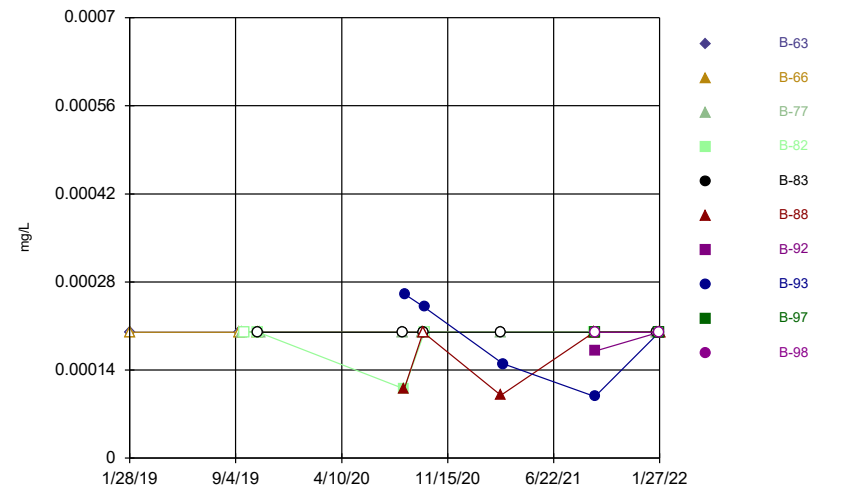
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



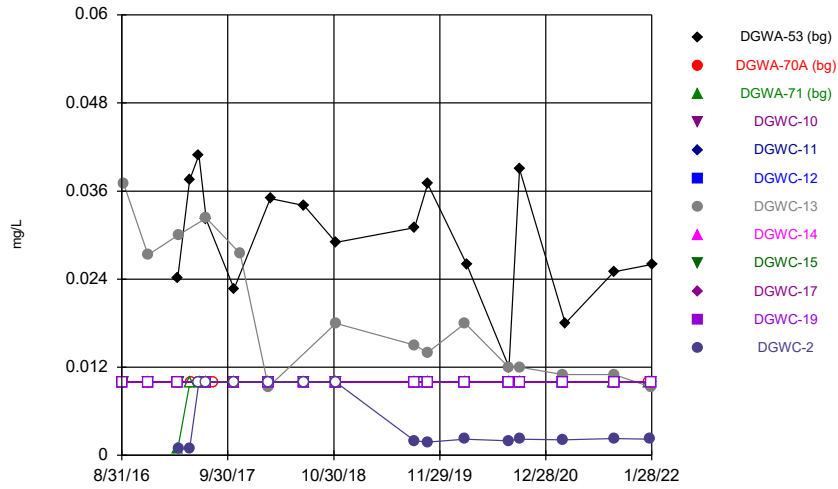
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

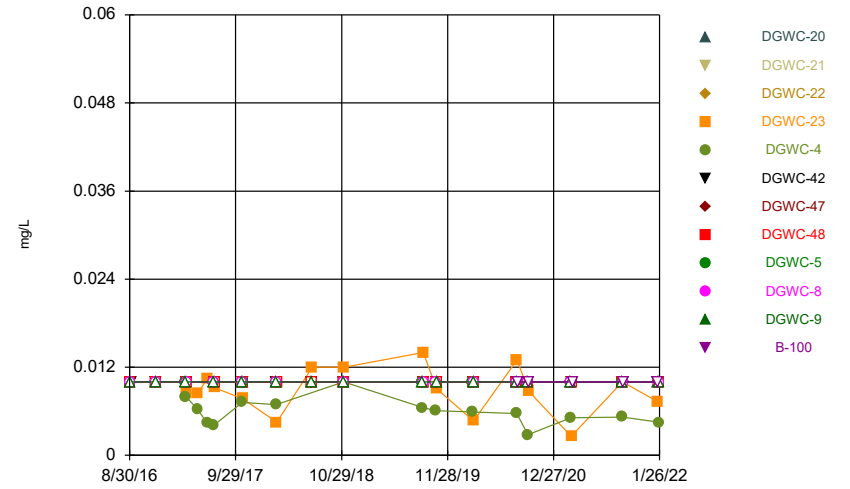


Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

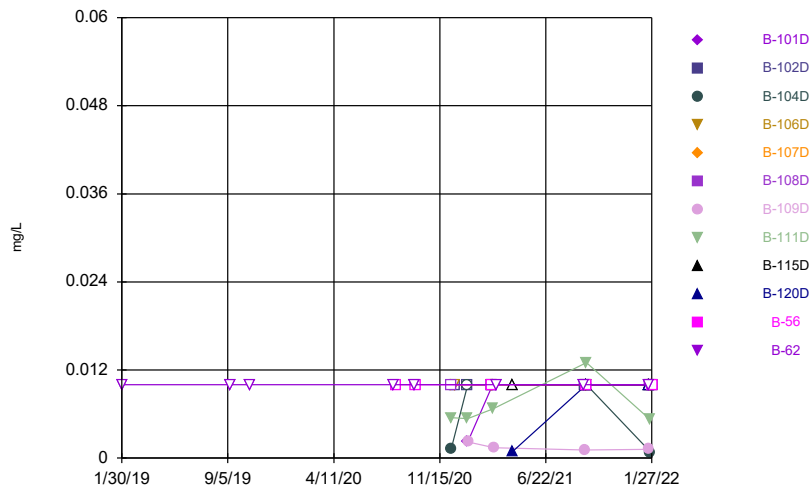
Time Series



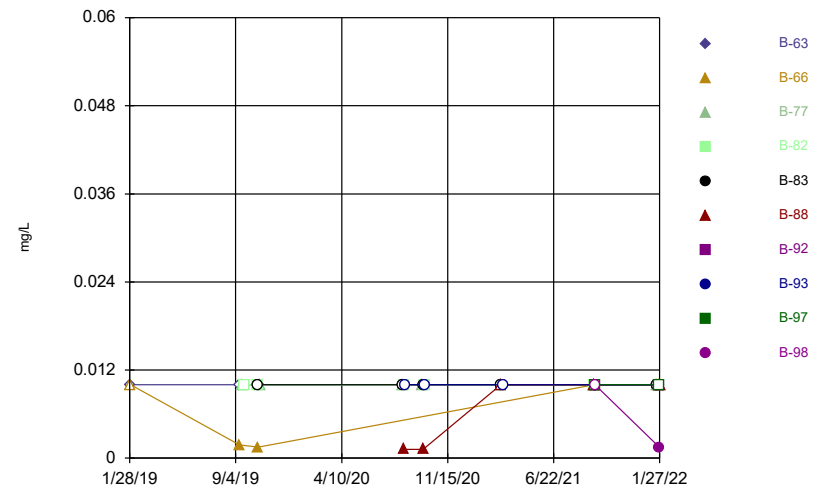
Time Series



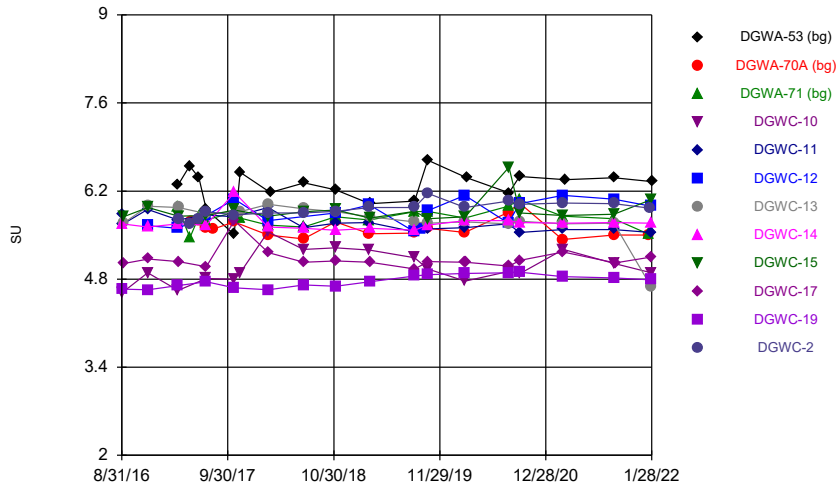
Time Series



Time Series

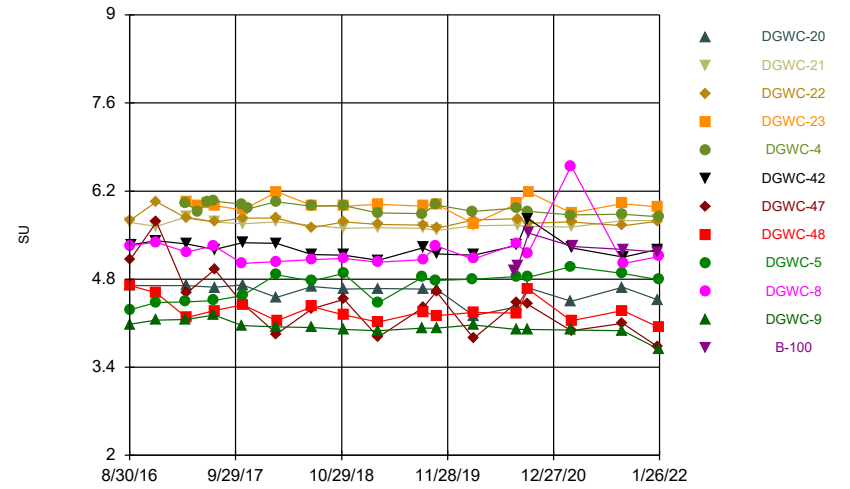


Time Series



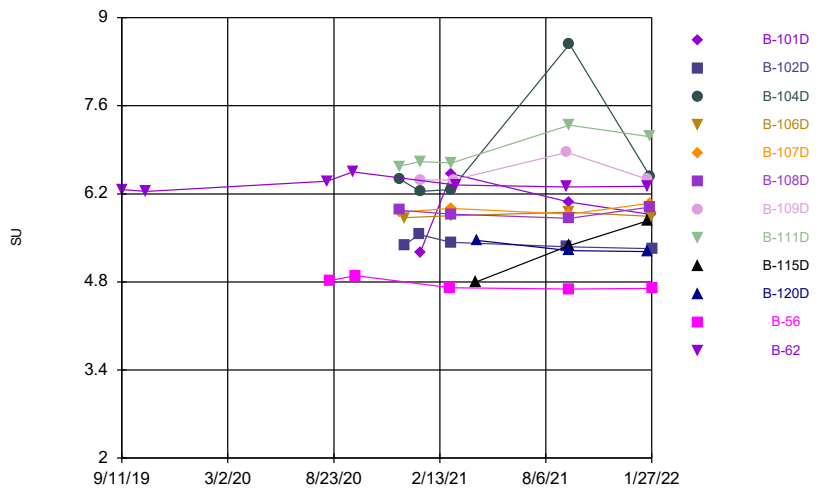
Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



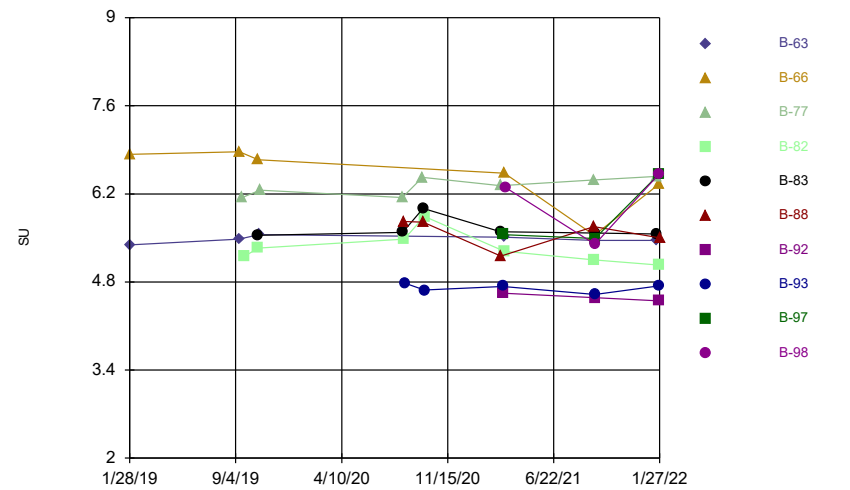
Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



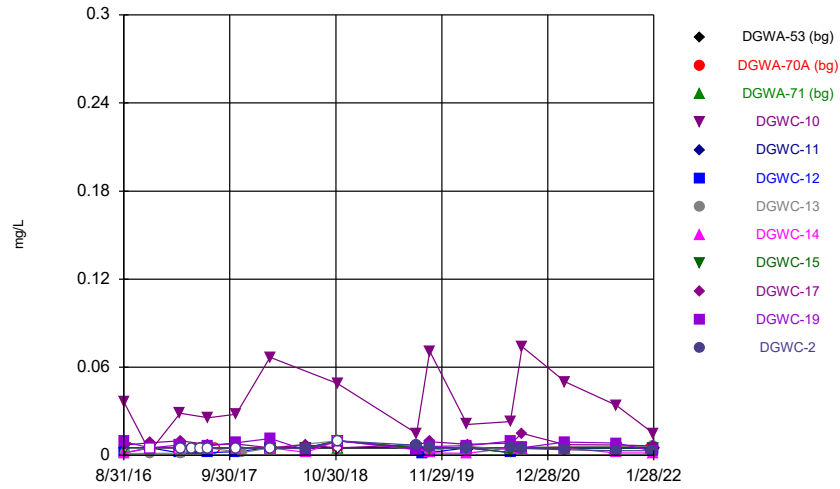
Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



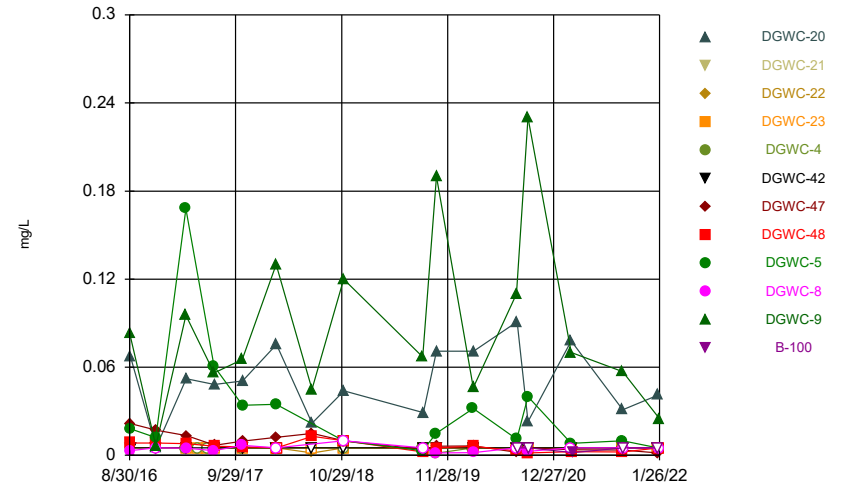
Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



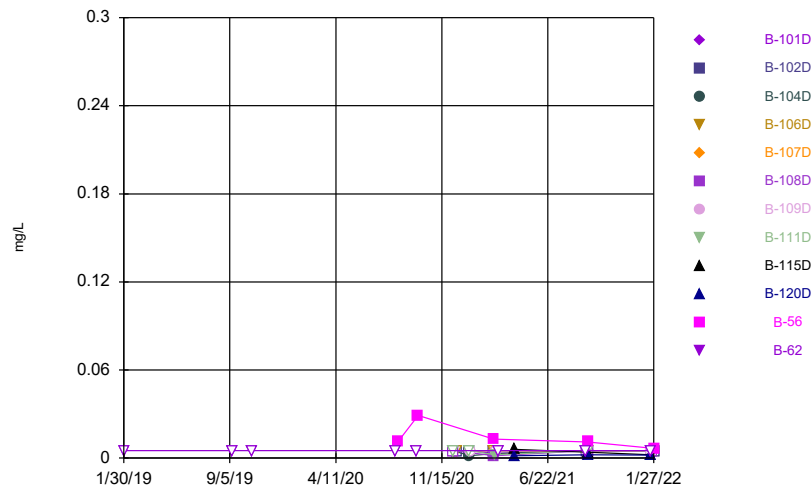
Constituent: Selenium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



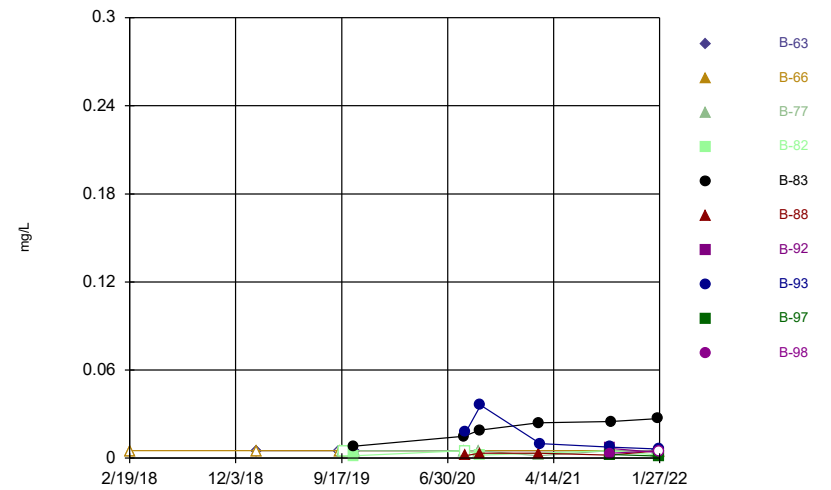
Constituent: Selenium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



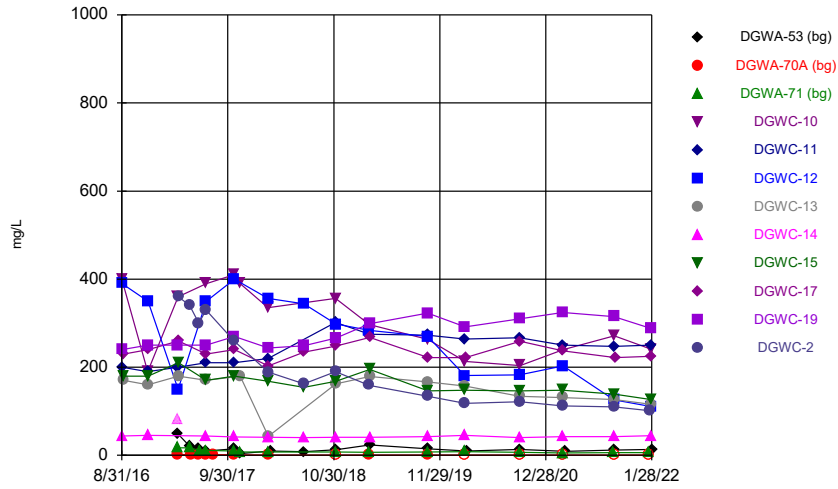
Constituent: Selenium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



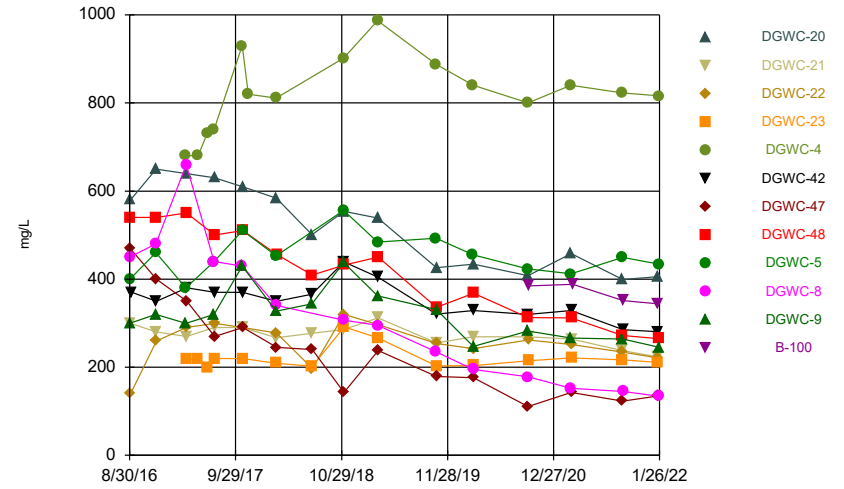
Constituent: Selenium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



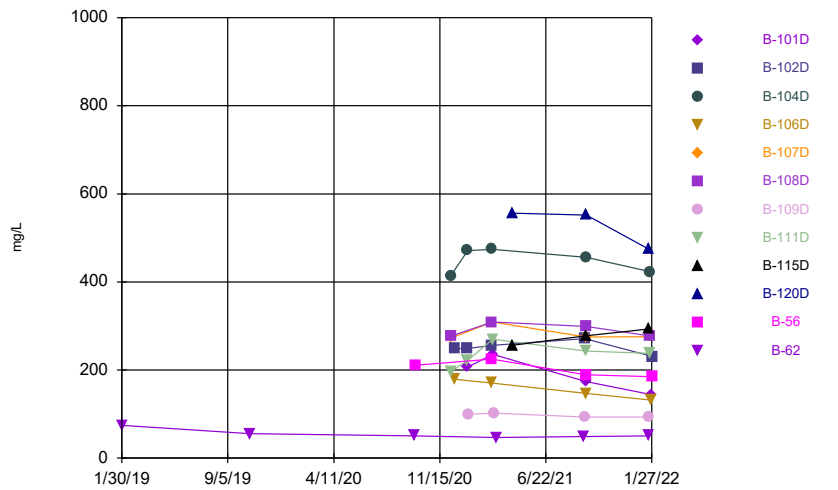
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



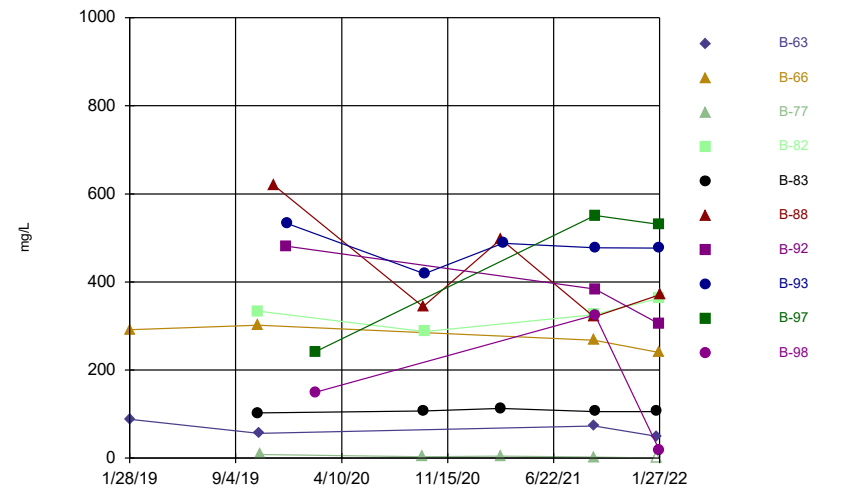
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



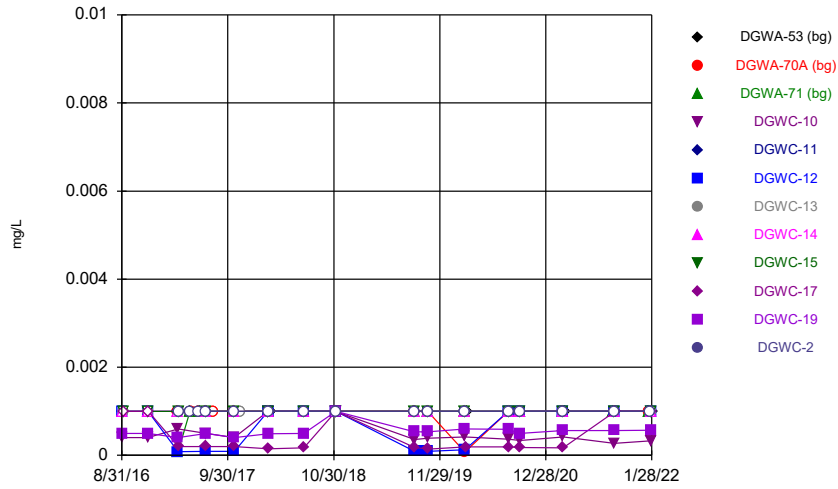
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



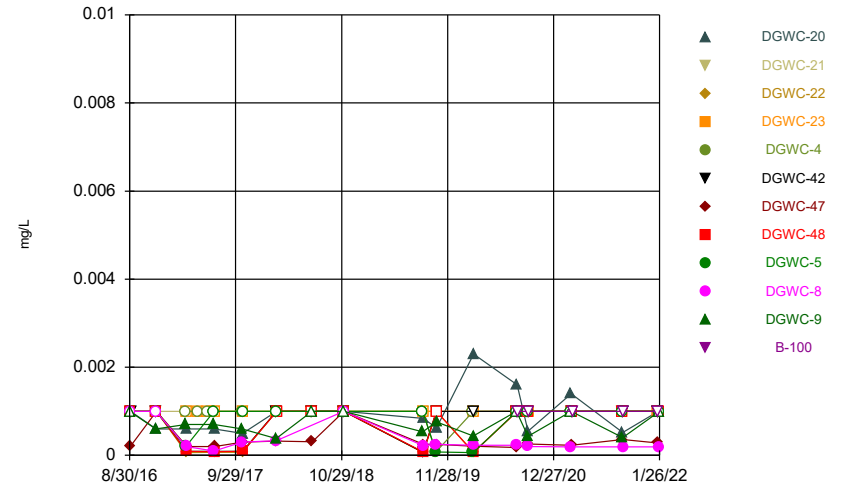
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



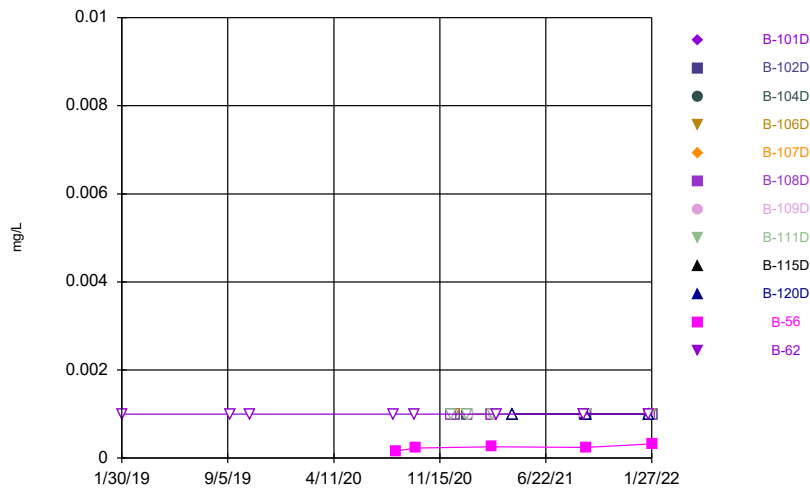
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



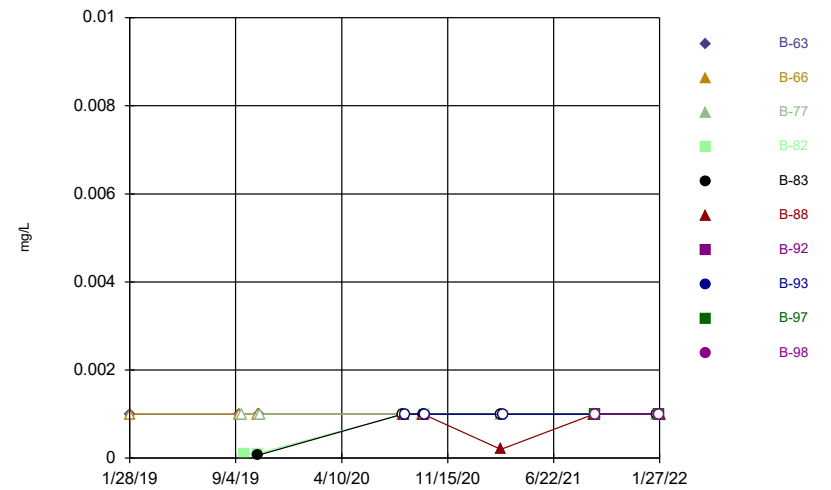
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



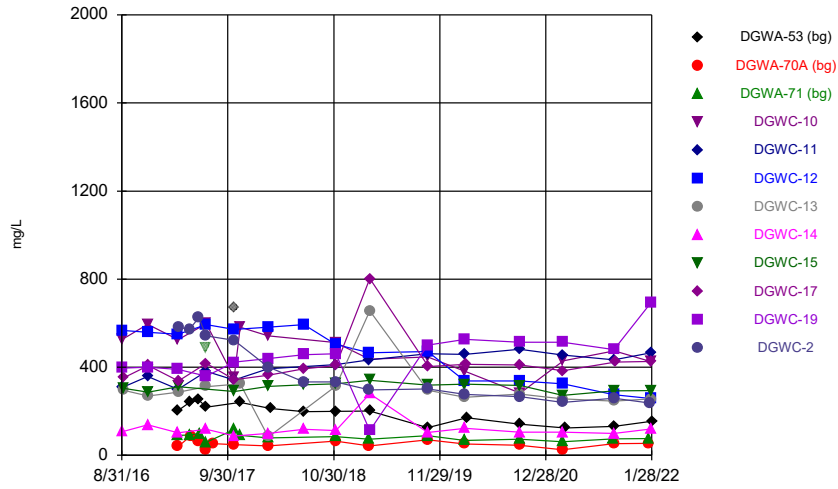
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



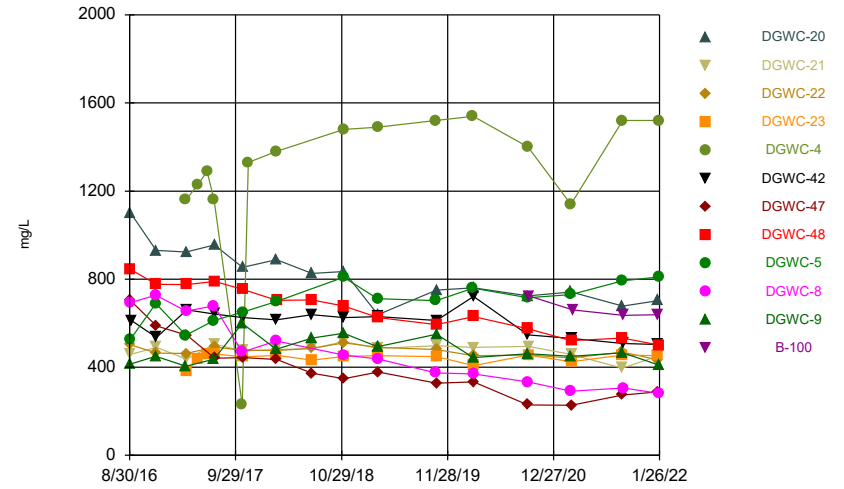
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



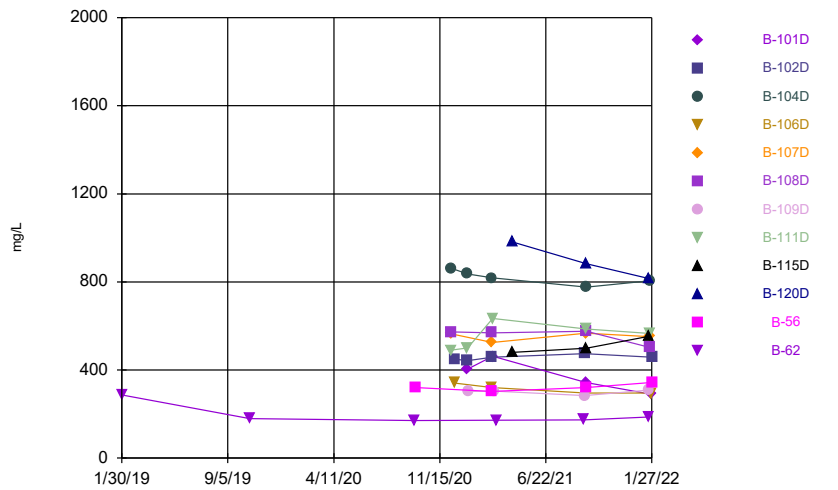
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



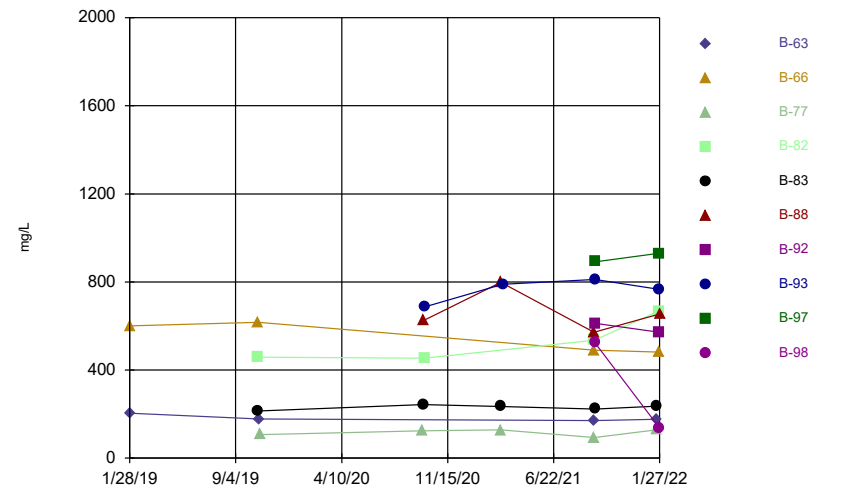
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.003	<0.003			<0.003	
9/1/2016						<0.003			
9/6/2016							<0.003		<0.003
9/7/2016									
12/6/2016				<0.003	<0.003			<0.003	
12/7/2016						<0.003	<0.003		<0.003
12/8/2016									
3/28/2017	<0.003	<0.003	0.0007 (J)						
3/29/2017				<0.003	<0.003	<0.003		<0.003	
3/30/2017							<0.003		<0.003
5/11/2017	<0.003								
5/12/2017			<0.003						
5/15/2017		<0.003							
6/15/2017	0.0006 (J)	<0.003							
6/16/2017			0.0007 (J)						
7/11/2017		<0.003	<0.003						
7/12/2017	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/8/2017		<0.003							
10/24/2017	<0.003	<0.003	<0.003	<0.003	<0.003				
10/25/2017						<0.003		<0.003	<0.003
11/15/2017							<0.003		
2/27/2018		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
2/28/2018							<0.003		<0.003
3/8/2018	<0.003								
7/11/2018						<0.003		<0.003	<0.003
7/12/2018	<0.003								
11/6/2018		<0.003	<0.003	<0.003	<0.003				
11/7/2018	<0.003					<0.003	<0.003	<0.003	<0.003
8/27/2019		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/28/2019	<0.003						<0.003		0.00033 (J)
9/17/2019						<0.003			
10/15/2019		<0.003	<0.003	<0.003	<0.003	<0.003			
10/16/2019	<0.003						<0.003	<0.003	
10/17/2019									<0.003
10/18/2019									
3/2/2020		<0.003	0.0018 (J)		<0.003	0.0003 (J)			
3/3/2020				<0.003			<0.003	<0.003	<0.003
3/4/2020									
3/9/2020	<0.003								
8/11/2020		0.0013 (J)	0.0018 (J)	<0.003	<0.003	<0.003		<0.003	
8/12/2020							<0.003		
8/13/2020	0.0003 (J)								0.00073 (J)
8/14/2020									
9/22/2020	<0.003	<0.003	<0.003		<0.003	<0.003		0.0011 (J)	
9/23/2020							<0.003		<0.003
9/24/2020				<0.003					
3/1/2021		<0.003	0.0019 (J)						
3/2/2021					<0.003		<0.003	<0.003	<0.003
3/3/2021						<0.003			
3/4/2021				<0.003					
3/12/2021	<0.003								
9/8/2021			<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.003	
9/6/2016			
9/7/2016	<0.003		
12/6/2016			
12/7/2016		<0.003	
12/8/2016	<0.003		
3/28/2017			
3/29/2017		<0.003	
3/30/2017	<0.003		<0.003
5/11/2017			<0.003
5/12/2017			
5/15/2017			
6/15/2017			0.0006 (J)
6/16/2017			
7/11/2017			<0.003
7/12/2017	<0.003	<0.003	
8/8/2017			
10/24/2017			<0.003
10/25/2017	<0.003	<0.003	
11/15/2017			
2/27/2018			<0.003
2/28/2018	<0.003	<0.003	
3/8/2018			
7/11/2018	<0.003	<0.003	<0.003
7/12/2018			
11/6/2018			<0.003
11/7/2018	<0.003	<0.003	
8/27/2019	<0.003		<0.003
8/28/2019		<0.003	
9/17/2019			
10/15/2019			
10/16/2019		<0.003	
10/17/2019			<0.003
10/18/2019	<0.003		
3/2/2020			
3/3/2020		<0.003	<0.003
3/4/2020	<0.003		
3/9/2020			
8/11/2020		<0.003	<0.003
8/12/2020			
8/13/2020			
8/14/2020	<0.003		
9/22/2020		0.00036 (J)	
9/23/2020			<0.003
9/24/2020	0.00045 (J)		
3/1/2021			
3/2/2021		<0.003	<0.003
3/3/2021	<0.003		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.003	<0.003
9/10/2021			
9/13/2021	<0.003		
1/18/2022			
1/20/2022			<0.003
1/24/2022	<0.003		
1/25/2022		<0.003	
1/26/2022			
1/28/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.003	<0.003	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.003	<0.003	
12/7/2016			
12/8/2016			
3/28/2017		<0.003	
3/29/2017	<0.003		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.003	<0.003	
7/12/2017			
7/13/2017			
10/24/2017	<0.003	<0.003	
10/25/2017			
10/26/2017			
2/27/2018	<0.003	<0.003	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.003	
7/12/2018			
11/6/2018	<0.003	<0.003	
11/7/2018			
11/8/2018			
8/27/2019		<0.003	
8/28/2019	<0.003		
8/29/2019			
10/15/2019			
10/16/2019	<0.003		
10/17/2019		<0.003	
10/18/2019			
3/2/2020			
3/3/2020	<0.003	<0.003	
3/4/2020			
8/11/2020		<0.003	
8/12/2020	<0.003		
8/13/2020			
8/14/2020			
8/17/2020			0.0013 (J)
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			
9/25/2020			<0.003
3/1/2021			
3/2/2021	0.00046 (J)	<0.003	
3/3/2021			
3/8/2021			0.0017 (J)

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.003	
9/13/2021	<0.003		<0.003
1/20/2022			
1/21/2022			<0.003
1/24/2022			
1/25/2022	<0.003		
1/26/2022		<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.00079 (J)		<0.003	<0.003		<0.003	
12/17/2020		0.0016 (J)		0.00048 (J)					
1/11/2021		<0.003							
1/12/2021	0.00039 (J)		0.00048 (J)					<0.003	
1/13/2021							0.00042 (J)		
3/3/2021									
3/4/2021		<0.003	0.00077 (J)	<0.003	<0.003	<0.003			
3/5/2021	0.0019 (J)							0.0006 (J)	
3/8/2021							0.00084 (J)		
3/12/2021									
4/14/2021									<0.003
4/15/2021									
9/9/2021									
9/10/2021		<0.003					0.004		
9/13/2021	0.001 (J)			<0.003	<0.003				
9/14/2021			<0.003			<0.003		<0.003	<0.003
1/20/2022							<0.003		<0.003
1/24/2022			0.001 (J)		<0.003	<0.003		<0.003	
1/25/2022				<0.003					
1/26/2022	0.00082 (J)								
1/27/2022		<0.003							

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/14/2021			
4/15/2021	0.00029 (J)		
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021	<0.003		
1/20/2022	<0.003		<0.003
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0011 (J)	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.003								
1/30/2019		<0.003							
9/11/2019	<0.003								
9/12/2019		<0.003							
9/18/2019			<0.003						
9/23/2019				<0.003					
10/21/2019		<0.003		<0.003	<0.003				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
8/13/2020			0.00043 (J)						
8/14/2020					<0.003				
8/17/2020				<0.003		<0.003			
8/19/2020								<0.003	
9/24/2020			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				
1/20/2022	<0.003		<0.003						
1/21/2022					<0.003				
1/25/2022		<0.003		<0.003					
1/26/2022							<0.003	<0.003	<0.003
1/27/2022						<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.003
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.003
1/27/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0058	<0.005			<0.005	
9/1/2016						<0.005			
9/6/2016							<0.005		<0.005
9/7/2016									
12/6/2016				0.0017 (J)	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
12/8/2016									
3/28/2017	0.0005 (J)	<0.005	<0.005						
3/29/2017				0.0055	<0.005	<0.005		<0.005	
3/30/2017							<0.005		0.0006 (J)
5/11/2017	0.0005 (J)								
5/12/2017			0.0004 (J)						
5/15/2017		<0.005							
6/15/2017	<0.005	<0.005							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017		<0.005							
10/24/2017	<0.005	<0.005	<0.005	0.0058	<0.005				
10/25/2017						0.0006 (J)		<0.005	<0.005
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	0.0105	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		<0.005	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	<0.005 (J)	<0.005				
11/7/2018	<0.005 (J)					<0.005	<0.005	<0.005	<0.005
8/27/2019		<0.005	<0.005	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019	<0.005						<0.005		<0.005
9/17/2019						<0.005			
10/15/2019		0.00052 (J)	0.00071 (J)	0.0078	<0.005	0.00063 (J)			
10/16/2019	0.0018 (J)						<0.005	0.00039 (J)	
10/17/2019									0.00064 (J)
10/18/2019									
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.0025 (J)			<0.005	<0.005	<0.005
3/4/2020									
3/9/2020	0.00068 (J)								
8/11/2020		<0.005	<0.005	0.0028 (J)	<0.005	<0.005		<0.005	
8/12/2020							<0.005		
8/13/2020	<0.005								0.0013 (J)
8/14/2020									
9/22/2020	0.00093 (J)	<0.005	<0.005		<0.005	<0.005		<0.005	
9/23/2020							<0.005		<0.005
9/24/2020				0.0078					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		<0.005	<0.005	<0.005
3/3/2021						<0.005			
3/4/2021				0.006					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0022 (J)	
9/6/2016			
9/7/2016	<0.005		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	<0.005		
3/28/2017			
3/29/2017		0.002 (J)	
3/30/2017	0.0008 (J)		<0.005
5/11/2017			<0.005
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	<0.005	0.0016 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0007 (J)	0.0022 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	0.00073 (J)	0.0028 (J)	
3/8/2018			
7/11/2018	<0.005	0.0009 (J)	<0.005
7/12/2018			
11/6/2018			<0.005
11/7/2018	<0.005	<0.005 (J)	
8/27/2019	<0.005		0.00099 (J)
8/28/2019		0.00049 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00046 (J)	
10/17/2019			<0.005
10/18/2019	0.0012 (J)		
3/2/2020			
3/3/2020		<0.005	0.0025 (J)
3/4/2020	0.0014 (J)		
3/9/2020			
8/11/2020		0.0014 (J)	<0.005
8/12/2020			
8/13/2020			
8/14/2020	<0.005		
9/22/2020		0.0017 (J)	
9/23/2020			<0.005
9/24/2020	0.0011 (J)		
3/1/2021			
3/2/2021		0.0013 (J)	<0.005
3/3/2021	<0.005		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0027 (J)	<0.005
9/10/2021			
9/13/2021	<0.005		
1/18/2022			
1/20/2022			0.0023 (J)
1/24/2022	0.0014 (J)		
1/25/2022		0.0014 (J)	
1/26/2022			
1/28/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0035 (J)
9/1/2016							0.0037 (J)	<0.005	
9/2/2016	0.0159	<0.005	<0.005						
9/7/2016						<0.005			
12/6/2016									0.0032 (J)
12/7/2016	0.0037 (J)								
12/8/2016		<0.005	<0.005			<0.005	0.0032 (J)	<0.005	
3/28/2017					0.0005 (J)				0.0385
3/29/2017	0.015		<0.005						
3/30/2017		<0.005		<0.005				0.0015 (J)	
3/31/2017						0.0007 (J)	0.0031 (J)		
5/12/2017				<0.005	0.0005 (J)				
6/15/2017				<0.005	<0.005				
7/11/2017					0.0008 (J)				0.0203
7/12/2017	0.0121	<0.005		<0.005					
7/13/2017			<0.005			<0.005	0.0018 (J)	0.0012 (J)	
10/24/2017					<0.005				
10/25/2017	0.0135	<0.005	<0.005			<0.005			0.0119
10/26/2017				<0.005			0.0016 (J)	0.0008 (J)	
2/27/2018					<0.005				0.0094
2/28/2018	0.0177	<0.005	0.001 (J)			0.0011 (J)			
3/1/2018				<0.005			0.0029 (J)		
3/2/2018								0.0017 (J)	
7/11/2018	0.0055	<0.005				<0.005			
7/12/2018			<0.005	<0.005			0.0023 (J)	0.0015 (J)	
11/6/2018					<0.005				<0.005
11/7/2018	0.0054	<0.005	<0.005			<0.005	<0.005 (J)	<0.005	
11/8/2018				<0.005					
8/27/2019					<0.005				<0.005
8/28/2019						<0.005			
8/29/2019	0.0064	<0.005	<0.005	<0.005			0.00089 (J)	<0.005	
10/15/2019					<0.005				
10/16/2019									0.0036 (J)
10/17/2019	0.0094	<0.005				<0.005	0.0013 (J)		
10/18/2019			<0.005	<0.005				0.00079 (J)	
3/2/2020					<0.005				0.0052
3/3/2020		<0.005	<0.005						
3/4/2020	0.029			<0.005		<0.005	0.0012 (J)	0.0006 (J)	
7/23/2020									
8/11/2020									
8/12/2020					<0.005		0.00081 (J)		0.002 (J)
8/13/2020	0.014			<0.005		<0.005		<0.005	
8/14/2020		<0.005	<0.005						
8/17/2020									
9/22/2020	0.0063				<0.005	<0.005			0.0062
9/23/2020							<0.005	<0.005	
9/24/2020		<0.005	<0.005	<0.005					
9/25/2020									
3/1/2021					<0.005				
3/2/2021	0.019								0.0013 (J)
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.005	0.0241	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.005	<0.005	
12/7/2016			
12/8/2016			
3/28/2017		0.0243	
3/29/2017	0.001 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0012 (J)	0.0194	
7/12/2017			
7/13/2017			
10/24/2017	0.0015 (J)	0.0249	
10/25/2017			
10/26/2017			
2/27/2018	0.002 (J)	0.0405	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.016	
7/12/2018			
11/6/2018	<0.005	0.017	
11/7/2018			
11/8/2018			
8/27/2019		0.021	
8/28/2019	<0.005		
8/29/2019			
10/15/2019			
10/16/2019	<0.005		
10/17/2019		0.033	
10/18/2019			
3/2/2020			
3/3/2020	0.00096 (J)	0.015	
3/4/2020			
7/23/2020			<0.005
8/11/2020		0.022	
8/12/2020	<0.005		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		0.04	
9/23/2020	<0.005		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.021	
3/3/2021			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/8/2021			<0.005
9/9/2021			
9/10/2021		0.031	
9/13/2021	<0.005		<0.005
1/20/2022			
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.005		
1/26/2022		0.012	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0025 (J)	<0.005	<0.005	<0.005			
3/5/2021	0.0017 (J)							0.0023 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.0028 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			0.0019 (J)			<0.005		0.0029 (J)	0.0018 (J)
1/20/2022							0.0026 (J)		0.0027 (J)
1/24/2022			0.0035 (J)		<0.005	<0.005		0.0022 (J)	
1/25/2022				<0.005					
1/26/2022	<0.005								
1/27/2022		<0.005							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.0032 (J)	
9/24/2020			<0.005
9/28/2020		0.0047 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021	<0.005		
1/20/2022	0.0016 (J)		0.0033 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0045 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/21/2019		<0.005		<0.005	<0.005				
10/22/2019	<0.005								
10/24/2019			0.0029 (J)						
8/13/2020			0.002 (J)						
8/14/2020					<0.005				
8/17/2020				<0.005		<0.005			
8/19/2020								0.0013 (J)	
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				
1/20/2022	0.0022 (J)		0.003 (J)						
1/21/2022					0.0014 (J)				
1/25/2022		<0.005		0.003 (J)					
1/26/2022							0.0015 (J)	0.002 (J)	0.0014 (J)
1/27/2022						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

11/22/2016
2/19/2018
1/28/2019
1/30/2019
9/11/2019
9/12/2019
9/18/2019
9/23/2019
10/21/2019
10/22/2019
10/24/2019
8/13/2020
8/14/2020
8/17/2020
8/19/2020
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021
3/12/2021
9/13/2021
9/14/2021
9/15/2021
9/16/2021
1/20/2022
1/21/2022
1/25/2022
1/26/2022
1/27/2022

<0.005

<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0321	0.0545			0.0576	
9/1/2016						0.0254			
9/6/2016							0.0297		0.0497
9/7/2016									
12/6/2016				0.029	0.0564			0.0608	
12/7/2016						0.0241	0.0266		0.0469
12/8/2016									
3/28/2017	0.134	0.0166	0.0378						
3/29/2017				0.0335	0.0565	0.0268		0.0693	
3/30/2017							0.0308		0.0495
5/11/2017	0.126								
5/12/2017			0.04						
5/15/2017		0.0181							
6/15/2017	0.14	0.0277							
6/16/2017			0.0369						
7/11/2017		0.0306	0.0362						
7/12/2017	0.173			0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
8/8/2017		0.0277							
10/24/2017	0.109	0.0333	0.0313	0.0317	0.0596				
10/25/2017						0.0268		0.0563	0.0474
11/15/2017							0.0309		
2/27/2018		0.0341	0.0287	0.028	0.0672	0.0255		0.0591	
2/28/2018							<0.01		0.0455
3/8/2018	0.19								
7/11/2018						0.026		0.061	0.05
7/12/2018	0.18								
11/6/2018		0.037	0.026	0.025	0.074				
11/7/2018	0.15					0.028	0.034	0.055	0.042
8/27/2019		0.037	0.027	0.021	0.071	0.024		0.059	
8/28/2019	0.087						0.033		0.047
9/17/2019						0.02			
10/15/2019		0.034	0.024	0.024	0.064	0.02			
10/16/2019	0.077						0.034	0.059	
10/17/2019									0.046
10/18/2019									
3/2/2020		0.035	0.026		0.071	0.04			
3/3/2020				0.024			0.035	0.064	0.05
3/4/2020									
3/9/2020	0.099								
8/11/2020		0.041	0.026	0.024	0.064	0.028		0.061	
8/12/2020							0.032		
8/13/2020	0.046								0.06
8/14/2020									
9/22/2020	0.07	0.038	0.024		0.058	0.036		0.06	
9/23/2020							0.03		0.043
9/24/2020				0.021					
3/1/2021		0.042	0.028						
3/2/2021					0.052		0.03	0.064	0.043
3/3/2021						0.035			
3/4/2021				0.025					
3/12/2021	0.076								
9/8/2021			0.025						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0214	
9/6/2016			
9/7/2016	0.0694		
12/6/2016			
12/7/2016		0.0191	
12/8/2016	0.062		
3/28/2017			
3/29/2017		0.0209	
3/30/2017	0.0615		0.0232
5/11/2017			0.0231
5/12/2017			
5/15/2017			
6/15/2017			0.0223
6/16/2017			
7/11/2017			0.0201
7/12/2017	0.0532	0.0212	
8/8/2017			
10/24/2017			0.0206
10/25/2017	0.0544	0.021	
11/15/2017			
2/27/2018			0.0207
2/28/2018	0.0527	0.0213	
3/8/2018			
7/11/2018	0.053	0.023	0.022
7/12/2018			
11/6/2018			0.021
11/7/2018	0.044	0.024	
8/27/2019	0.05		0.023
8/28/2019		0.026	
9/17/2019			
10/15/2019			
10/16/2019		0.024	
10/17/2019			0.022
10/18/2019	0.045		
3/2/2020			
3/3/2020		0.028	0.022
3/4/2020	0.044		
3/9/2020			
8/11/2020		0.027	0.022
8/12/2020			
8/13/2020			
8/14/2020	0.046		
9/22/2020		0.026	
9/23/2020			0.023
9/24/2020	0.033		
3/1/2021			
3/2/2021		0.026	0.023
3/3/2021	0.036		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.025	0.022
9/10/2021			
9/13/2021	0.031		
1/18/2022			
1/20/2022			0.022
1/24/2022	0.031		
1/25/2022		0.026	
1/26/2022			
1/28/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0435	0.0162	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0431	0.0138	
12/7/2016			
12/8/2016			
3/28/2017		0.017	
3/29/2017	0.044		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0389	0.0154 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0369	0.0148	
10/25/2017			
10/26/2017			
2/27/2018	0.0346	0.0148	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.017	
7/12/2018			
11/6/2018	0.027	0.015	
11/7/2018			
11/8/2018			
8/27/2019		0.016	
8/28/2019	0.025		
8/29/2019			
10/15/2019			
10/16/2019	0.027		
10/17/2019		0.015	
10/18/2019			
3/2/2020			
3/3/2020	0.026	0.016	
3/4/2020			
8/11/2020		0.016	
8/12/2020	0.034		
8/13/2020			
8/14/2020			
8/17/2020			0.015
9/22/2020		0.015	
9/23/2020	0.025		
9/24/2020			
9/25/2020			0.022
3/1/2021			
3/2/2021	0.029	0.017	
3/3/2021			
3/8/2021			0.022

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.014	
9/13/2021	0.019		0.021
1/20/2022			
1/21/2022			0.023
1/24/2022			
1/25/2022	0.019		
1/26/2022		0.016	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.026		0.13	0.066		0.027	
12/17/2020		0.022		0.022					
1/11/2021		0.024							
1/12/2021	0.076		0.022					0.027	
1/13/2021							0.06		
3/3/2021									
3/4/2021		0.022	0.021	0.021	0.12	0.06			
3/5/2021	0.064							0.038	
3/8/2021							0.056		
3/12/2021									
4/14/2021									0.018
4/15/2021									
9/9/2021									
9/10/2021		0.02					0.022		
9/13/2021	0.076			0.02	0.087				
9/14/2021			0.021			0.06		0.043	0.016
1/20/2022							0.047		0.015
1/24/2022			0.024		0.092	0.056		0.038	
1/25/2022				0.02					
1/26/2022	0.062								
1/27/2022		0.022							

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			0.018
9/11/2019			0.023
10/21/2019			0.026
8/13/2020			0.026
8/17/2020		0.03	
9/24/2020			0.025
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/14/2021			
4/15/2021	0.044		
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021	0.031		
1/20/2022	0.025		0.021
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.03	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.028								
1/30/2019		0.016							
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
8/13/2020			0.11						
8/14/2020					0.056				
8/17/2020				0.024		0.022			
8/19/2020								0.018	
9/24/2020			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				
1/20/2022	0.02		0.13						
1/21/2022					0.024				
1/25/2022		0.021		0.026					
1/26/2022							0.016	0.021	0.02
1/27/2022						0.018			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.082
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.035
1/27/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0019 (J)	
9/6/2016			
9/7/2016	0.0006 (J)		
12/6/2016			
12/7/2016		0.0021 (J)	
12/8/2016	0.0005 (J)		
3/28/2017			
3/29/2017		0.0017 (J)	
3/30/2017	0.0006 (J)		<0.0005
5/11/2017			<0.0005
5/12/2017			
5/15/2017			
6/15/2017			<0.0005
6/16/2017			
7/11/2017			<0.0005
7/12/2017	0.0005 (J)	0.0018 (J)	
8/8/2017			
10/24/2017			<0.0005
10/25/2017	0.0005 (J)	0.0019 (J)	
11/15/2017			
2/27/2018			<0.0005
2/28/2018	<0.0005	<0.0005	
3/8/2018			
7/10/2018			
7/11/2018	0.00058 (J)	0.002 (J)	<0.0005
7/12/2018			
11/6/2018			<0.0005
11/7/2018	<0.0005	<0.003 (J)	
8/27/2019	0.00066 (J)		<0.0005
8/28/2019		0.0018 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0017 (J)	
10/17/2019			<0.0005
10/18/2019	0.00071 (J)		
3/2/2020			
3/3/2020		0.0021 (J)	<0.0005
3/4/2020	0.00062 (J)		
3/9/2020			
8/11/2020		0.002 (J)	<0.0005
8/12/2020			
8/13/2020			
8/14/2020	0.00064 (J)		
9/22/2020		0.002 (J)	
9/23/2020			<0.0005
9/24/2020	0.0006 (J)		
3/1/2021			
3/2/2021		0.0019	<0.0005
3/3/2021	0.00056		
3/4/2021			
3/12/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/8/2021			
9/9/2021		0.0022	<0.0005
9/10/2021			
9/13/2021	0.00052		
1/18/2022			
1/20/2022			<0.0005
1/24/2022	0.00059		
1/25/2022		0.0019	
1/26/2022			
1/28/2022			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0018 (J)	0.0045	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0034	0.005	
12/7/2016			
12/8/2016			
3/28/2017		0.0052	
3/29/2017	0.0031		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0022 (J)	0.0048	
7/12/2017			
7/13/2017			
10/24/2017	0.0042	0.0051	
10/25/2017			
10/26/2017			
2/27/2018	0.0047	0.0057	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.0058	
7/12/2018			
11/6/2018	<0.003 (J)	0.006	
11/7/2018			
11/8/2018			
8/27/2019		0.007	
8/28/2019	0.0021 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.0019 (J)		
10/17/2019		0.0063	
10/18/2019			
3/2/2020			
3/3/2020	0.0018 (J)	0.0048	
3/4/2020			
8/11/2020		0.0062	
8/12/2020	0.0018 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.0004 (J)
9/22/2020		0.0049	
9/23/2020	0.0015 (J)		
9/24/2020			
9/25/2020			0.00035 (J)
3/1/2021			
3/2/2021	0.0012	0.005	
3/3/2021			
3/8/2021			0.00046 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0049	
9/13/2021	0.0015		0.00053
1/20/2022			
1/21/2022			0.00053
1/24/2022			
1/25/2022	0.0012		
1/26/2022		0.0054	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0013 (J)		<0.0005	<0.0005		<0.0005	
12/17/2020		0.0014 (J)		0.00012 (J)					
1/11/2021		0.0013 (J)							
1/12/2021	6.6E-05 (J)		0.0015 (J)					<0.0005	
1/13/2021							5.9E-05 (J)		
3/3/2021									
3/4/2021		0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005			
3/5/2021	4.7E-05 (J)							<0.0005	
3/8/2021							7.9E-05 (J)		
3/12/2021									
4/14/2021									0.012
4/15/2021									
9/9/2021									
9/10/2021		0.0011					<0.0005		
9/13/2021	6.7E-05 (J)			0.00013 (J)	<0.0005				
9/14/2021			0.0011			<0.0005		<0.0005	0.011
1/20/2022							7.1E-05 (J)		0.011
1/24/2022			0.0012		<0.0005	<0.0005		<0.0005	
1/25/2022				0.00011 (J)					
1/26/2022	7.9E-05 (J)								
1/27/2022		0.0011							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0005
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.00085		
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021	0.00087		
1/20/2022	0.0011		0.00015 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0012	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
2/19/2018	0.00049 (J)	<0.0005							
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.0005
2/27/2020									0.0019 (J)
8/13/2020			0.00014 (J)						
8/14/2020					0.0007 (J)				
8/17/2020				0.0014 (J)		0.0014 (J)			
8/19/2020								0.015	
9/24/2020			5.3E-05 (J)						
9/25/2020					0.00028 (J)	0.00063 (J)			
9/28/2020				0.0015 (J)				0.015	
3/4/2021			5.7E-05 (J)		0.00037 (J)				
3/5/2021						0.005			
3/9/2021							0.017	0.017	0.0019
3/15/2021									
9/13/2021						0.001			
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				
1/20/2022	0.00034 (J)		<0.0005						
1/21/2022					0.00039 (J)				
1/25/2022		<0.0005		0.0021					
1/26/2022							0.018	0.017	0.0017
1/27/2022						0.0019			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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10/7/2016	
11/22/2016	
2/19/2018	
1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
12/18/2019	
12/19/2019	
2/17/2020	<0.0005
2/27/2020	<0.0005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/15/2021	<0.0005
9/13/2021	
9/14/2021	
9/15/2021	0.00087
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	6.8E-05 (J)
1/27/2022	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		3.08	
9/6/2016			
9/7/2016	0.683		
12/6/2016			
12/7/2016		3.34	
12/8/2016	0.688		
3/28/2017			
3/29/2017		3.96	
3/30/2017	0.743		1.56
5/11/2017			1.65
5/12/2017			
5/15/2017			
6/15/2017			1.44
6/16/2017			
7/11/2017			1.39
7/12/2017	0.62	2.82	
8/8/2017			
10/24/2017			1.18
10/25/2017	0.739	3.19	
11/15/2017			
2/27/2018			1.12
2/28/2018	0.627	2.91	
3/8/2018			
7/11/2018	0.79	3.7	0.82
7/12/2018			
11/6/2018			0.9
11/7/2018	1.6	2.6	
3/12/2019			0.72
3/13/2019	0.76	2.6	
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019		2.2	
10/17/2019			0.73
10/18/2019	0.82		
3/2/2020			
3/3/2020		3.1	0.68
3/4/2020	0.85		
3/9/2020			
9/22/2020		2.6	
9/23/2020			0.57
9/24/2020	0.88		
3/1/2021			
3/2/2021		2.3	0.52
3/3/2021	0.71		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		2.7	0.51
9/10/2021			
9/13/2021	0.78		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/18/2022			
1/20/2022			0.5
1/24/2022	0.9		
1/25/2022		2.5	
1/26/2022			
1/28/2022			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									7.5
9/1/2016							0.345	0.955	
9/2/2016	6.77	4.81	3.99						
9/7/2016						0.924			
12/6/2016									5.64
12/7/2016	6.04								
12/8/2016		3.57	3.1			0.957	0.352	0.919	
3/28/2017					4.01				6.16
3/29/2017	8.23		4.85						
3/30/2017		5.68		4.68				0.925	
3/31/2017						0.989	0.312		
5/12/2017				4.03	3.58				
6/15/2017				4.11	3.58				
7/11/2017					3.85				4.61
7/12/2017	6.81	5.2		3.74					
7/13/2017			3.85			1.03	0.28	0.972	
10/24/2017					3.82				
10/25/2017	8.94	7.92	3.9			0.982			4
10/26/2017				4.07			0.269	0.746	
2/27/2018					4.06				4.29
2/28/2018	6.26	5.89	5.14			0.918			
3/1/2018				4.37			0.296		
3/2/2018								0.878	
7/11/2018	5.7	8.3				0.83			
7/12/2018			3.6	4			0.26	0.82	
11/6/2018					4.1				4.2
11/7/2018	5	4.9	3.3			0.89	0.3	0.74	
11/8/2018				4.7					
3/12/2019					4.6				4.3
3/13/2019	5.6	6.2							
3/14/2019			4.1	4.7		0.89	0.26	0.72	
10/15/2019					5				
10/16/2019									4.3
10/17/2019	5	7				0.94	0.25		
10/18/2019			4.2	4.5				0.74	
3/2/2020					5.9				5.5
3/3/2020		6.8	4.6						
3/4/2020	3.6			4.8		1	0.24	0.77	
9/22/2020	4.9				4.3	0.88			4.6
9/23/2020							0.21	0.65	
9/24/2020		6.1	4.1	4.6					
9/25/2020									
3/1/2021					4.7				
3/2/2021	3.4								4.3
3/3/2021		5.3	3.9	4		0.87	0.17	0.57	
3/8/2021									
9/9/2021		5.8		4.7					
9/10/2021	4.8		4.5		5		0.16	0.55	4.7
9/13/2021						0.95			
1/20/2022		6.9	4.2	4.5		0.83			
1/21/2022	3.6						0.17		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	2.63	1.72	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	2.72	1.92	
12/7/2016			
12/8/2016			
3/28/2017		2.01	
3/29/2017	3.04		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	2.55	1.78	
7/12/2017			
7/13/2017			
10/24/2017	2.29	1.72	
10/25/2017			
10/26/2017			
2/27/2018	2.07	1.68	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		1.4	
7/12/2018			
11/6/2018	1.7	1.4	
11/7/2018			
11/8/2018			
3/12/2019	1.5	1.2	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	1.2		
10/17/2019		1.2	
10/18/2019			
3/2/2020			
3/3/2020	1.5	1.1	
3/4/2020			
9/22/2020		0.78	
9/23/2020	1		
9/24/2020			
9/25/2020			0.27
3/1/2021			
3/2/2021	0.96	0.77	
3/3/2021			
3/8/2021			0.24
9/9/2021			
9/10/2021		0.54	
9/13/2021	0.86		0.24
1/20/2022			
1/21/2022			0.24

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
1/24/2022			
1/25/2022	0.98		
1/26/2022		0.69	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			0.26 (J)		11.7	6.7		0.34 (J)	
12/17/2020		2.4		1.4					
1/11/2021		2.7							
1/12/2021	1.7		0.28					0.26	
1/13/2021							0.46		
3/3/2021									
3/4/2021		2.5	0.26	1.4	12	6.4			
3/5/2021	1.9							0.44	
3/8/2021							0.55		
3/12/2021									
4/14/2021									0.69
4/15/2021									
9/9/2021									
9/10/2021		2.5					0.41		
9/13/2021	1.6			1.3	10.7				
9/14/2021			0.23			6.8		0.32	0.61
1/20/2022							0.6		0.55
1/24/2022			0.24		12.3	6.8		0.49	
1/25/2022				1.2					
1/26/2022	1.4								
1/27/2022		2.7							

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Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/14/2021			
4/15/2021	1.9		
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021	1.7		
1/20/2022	1.9		0.077
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		1.6	

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Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
1/28/2019	0.44								
1/30/2019		2							
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				
1/20/2022	0.21		0.28						
1/21/2022					0.32				
1/25/2022		2.3		0.7					
1/26/2022							2.7	3.6	3.7
1/27/2022						2.7			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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11/22/2016	
1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	2.6
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.12
1/27/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0012	<0.0005			<0.0005	
9/1/2016						0.0004 (J)			
9/6/2016							<0.0005		<0.0005
9/7/2016									
12/6/2016				0.0013	<0.0005			<0.0005	
12/7/2016						0.0003 (J)	0.0002 (J)		9E-05 (J)
12/8/2016									
3/28/2017	<0.0005	<0.0005	<0.0005						
3/29/2017				0.0013	<0.0005	0.0003 (J)		<0.0005	
3/30/2017							8E-05 (J)		9E-05 (J)
5/11/2017	8E-05 (J)								
5/12/2017			<0.0005						
5/15/2017		<0.0005							
6/15/2017	<0.0005	<0.0005							
6/16/2017			<0.0005						
7/11/2017		<0.0005	<0.0005						
7/12/2017	<0.0005			0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005
8/8/2017		<0.0005							
10/24/2017	<0.0005	<0.0005	<0.0005	0.0014	<0.0005				
10/25/2017						0.0004 (J)		<0.0005	<0.0005
11/15/2017							<0.0005		
2/27/2018		<0.0005	<0.0005	0.001	<0.0005	<0.0005		<0.0005	
2/28/2018							<0.0005		<0.0005
3/8/2018	<0.0005								
7/11/2018						0.00033 (J)		<0.0005	<0.0005
7/12/2018	0.00013 (J)								
11/6/2018		<0.0005	<0.0005	0.0012	<0.0005				
11/7/2018	<0.0005					<0.001 (J)	<0.0005	<0.0005	<0.001 (J)
8/27/2019		<0.0005	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005	
8/28/2019	<0.0005						<0.0005		<0.0005
9/17/2019						0.00035 (J)			
10/15/2019		<0.0005	<0.0005	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019	<0.0005						<0.0005	<0.0005	
10/17/2019									<0.0005
10/18/2019									
3/2/2020		0.00041 (J)	<0.0005		<0.0005	<0.0005			
3/3/2020				0.00095 (J)			<0.0005	<0.0005	0.00012 (J)
3/4/2020									
3/9/2020	<0.0005								
8/11/2020		<0.0005	<0.0005	0.00071 (J)	<0.0005	0.00038 (J)		<0.0005	
8/12/2020							<0.0005		
8/13/2020	<0.0005								0.00013 (J)
8/14/2020									
9/22/2020	<0.0005	<0.0005	<0.0005		0.00016 (J)	0.00017 (J)		<0.0005	
9/23/2020							<0.0005		<0.0005
9/24/2020				0.00055 (J)					
3/1/2021		<0.0005	<0.0005						
3/2/2021					0.00013 (J)		<0.0005	<0.0005	<0.0005
3/3/2021						0.00016 (J)			
3/4/2021				0.00088					
3/12/2021	<0.0005								
9/8/2021			<0.0005						

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Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0004 (J)	
9/6/2016			
9/7/2016	0.0003 (J)		
12/6/2016			
12/7/2016		0.0004 (J)	
12/8/2016	0.0003 (J)		
3/28/2017			
3/29/2017		0.0004 (J)	
3/30/2017	0.0003 (J)		0.0005 (J)
5/11/2017			0.0004 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.0003 (J)
6/16/2017			
7/11/2017			0.0003 (J)
7/12/2017	0.0002 (J)	0.0004 (J)	
8/8/2017			
10/24/2017			0.0003 (J)
10/25/2017	0.0002 (J)	0.0004 (J)	
11/15/2017			
2/27/2018			<0.0005
2/28/2018	<0.0005	<0.0005	
3/8/2018			
7/11/2018	0.00029 (J)	0.00039 (J)	0.00018 (J)
7/12/2018			
11/6/2018			<0.001 (J)
11/7/2018	<0.0005	<0.001 (J)	
8/27/2019	0.00033 (J)		0.00012 (J)
8/28/2019		0.00033 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00034 (J)	
10/17/2019			0.00013 (J)
10/18/2019	0.00029 (J)		
3/2/2020			
3/3/2020		0.00037 (J)	0.00014 (J)
3/4/2020	0.00028 (J)		
3/9/2020			
8/11/2020		0.0003 (J)	<0.0005
8/12/2020			
8/13/2020			
8/14/2020	0.00029 (J)		
9/22/2020		0.00036 (J)	
9/23/2020			0.00013 (J)
9/24/2020	0.00024 (J)		
3/1/2021			
3/2/2021		0.00035 (J)	<0.0005
3/3/2021	0.00023 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00037 (J)	<0.0005
9/10/2021			
9/13/2021	0.00023 (J)		
1/18/2022			
1/20/2022			<0.0005
1/24/2022	0.00027 (J)		
1/25/2022		0.00041 (J)	
1/26/2022			
1/28/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0019	0.0004 (J)	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0025	0.0005 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0005 (J)	
3/29/2017	0.0024		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0021	0.0005 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0029	0.0006 (J)	
10/25/2017			
10/26/2017			
2/27/2018	0.0029	<0.0005	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.00067 (J)	
7/12/2018			
11/6/2018	0.0027	<0.001 (J)	
11/7/2018			
11/8/2018			
8/27/2019		0.00071 (J)	
8/28/2019	0.0022 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.0022 (J)		
10/17/2019		0.00064 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.002 (J)	0.00059 (J)	
3/4/2020			
8/11/2020		0.00059 (J)	
8/12/2020	0.0021 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.00059 (J)
9/22/2020		0.00059 (J)	
9/23/2020	0.0018 (J)		
9/24/2020			
9/25/2020			0.00027 (J)
3/1/2021			
3/2/2021	0.0017	0.00057	
3/3/2021			
3/8/2021			0.00027 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.00053	
9/13/2021	0.002		0.00029 (J)
1/20/2022			
1/21/2022			0.00059
1/24/2022			
1/25/2022	0.0016		
1/26/2022		0.00059	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.0005		<0.0005	<0.0005		<0.0005	
12/17/2020		0.00067 (J)		0.0002 (J)					
1/11/2021		0.0008 (J)							
1/12/2021	<0.0005		<0.0005					<0.0005	
1/13/2021							<0.0005		
3/3/2021									
3/4/2021		0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005			
3/5/2021	<0.0005							<0.0005	
3/8/2021							<0.0005		
3/12/2021									
4/14/2021									0.00041 (J)
4/15/2021									
9/9/2021									
9/10/2021		0.00083					<0.0005		
9/13/2021	<0.0005			0.00024 (J)	<0.0005				
9/14/2021			<0.0005			<0.0005		<0.0005	0.00035 (J)
1/20/2022							<0.0005		0.00029 (J)
1/24/2022			<0.0005		<0.0005	<0.0005		<0.0005	
1/25/2022				0.00012 (J)					
1/26/2022	0.00011 (J)								
1/27/2022		0.00091							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.001		
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021	0.0011		
1/20/2022	0.00098		<0.0005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.00025 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				
1/20/2022	<0.0005		<0.0005						
1/21/2022					0.0003 (J)				
1/25/2022		<0.0005		0.00072					
1/26/2022							0.001	0.00079	0.00055
1/27/2022						0.0036			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0003 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.0005
1/27/2022	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				81.7	44.2			9.95	
9/1/2016						80.6			
9/6/2016							44		33.6
9/7/2016									
12/6/2016				74.2	48.3			10.4	
12/7/2016						82.1	39.8		34.7
12/8/2016									
3/28/2017	30.8	5.14	8.31						
3/29/2017				79.5	50.5	88.3		14.4	
3/30/2017							46.3		36.9
5/11/2017	35.8								
5/12/2017			8.04						
5/15/2017		6.5							
6/15/2017	36	5.38							
6/16/2017			7.66						
7/11/2017		5.96	7.71						
7/12/2017	40.3			86.3	50.8	87	47.8	10.5	38.4
8/8/2017		5.2							
10/24/2017	30.3	4.93	6.86	81.5	55				
10/25/2017						92.1		9.67	36.2
11/15/2017							49.3		
2/27/2018		<25	<25	96.2	51.4	85.6		<25	
2/28/2018							<25		35
3/8/2018	39.8								
7/11/2018						93.6		9.9	37.5
7/12/2018	34.7								
11/6/2018		5.5	5.7	94.8	62.6				
11/7/2018	28.6					73.3	44.8	9.7	11.4
3/12/2019		5.1	5.5	83.5	61.4	62.1			
3/13/2019	26.7						42.1	9.7	
3/14/2019									34.7
10/15/2019		5.1	5.1	79.1	61.2	61.4			
10/16/2019	17.7						43.8	9.4	
10/17/2019									37
10/18/2019									
3/2/2020		5.3	5.8		65.8	46.5			
3/3/2020				63.6			49.3	14	37.8
3/4/2020									
3/9/2020	23.7								
9/22/2020	15.5	5	5.4		72.7	55.4		11.6	
9/23/2020							39		35.6
9/24/2020				53.1					
3/1/2021		4.1	5.9						
3/2/2021					65.3		40.5	11.4	36
3/3/2021						50.1			
3/4/2021				75.8					
3/12/2021	18.4								
9/8/2021			6.1						
9/9/2021	18.3	5.3			66.8	29.2	38.2	11.1	34.4
9/10/2021				82.4					
9/13/2021									
1/18/2022		6.1	6.6						

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		65.6	
9/6/2016			
9/7/2016	8.61		
12/6/2016			
12/7/2016		68.3	
12/8/2016	7.92		
3/28/2017			
3/29/2017		68	
3/30/2017	9.56		103
5/11/2017			102
5/12/2017			
5/15/2017			
6/15/2017			96.2
6/16/2017			
7/11/2017			98.4
7/12/2017	10.4	70	
8/8/2017			
10/24/2017			86
10/25/2017	10.9	77	
11/15/2017			
2/27/2018			66.7
2/28/2018	<25	72	
3/8/2018			
7/11/2018	13 (J)	82.7	55
7/12/2018			
11/6/2018			54.5
11/7/2018	37	81.7	
3/12/2019			52.2
3/13/2019	11.9 (J)	76.9	
3/14/2019			
10/15/2019			
10/16/2019		85.7	
10/17/2019			47.2
10/18/2019	12.9		
3/2/2020			
3/3/2020		86.8	48.4
3/4/2020	15.8		
3/9/2020			
9/22/2020		103	
9/23/2020			44.4
9/24/2020	12.7		
3/1/2021			
3/2/2021		93.2	44
3/3/2021	14.3		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		93.6	42
9/10/2021			
9/13/2021	15.8		
1/18/2022			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			44.6
1/24/2022	15.6		
1/25/2022		101	
1/26/2022			
1/28/2022			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									82.6
9/1/2016							69.3	95.1	
9/2/2016	96.3	70.2	61.6						
9/7/2016						43.6			
12/6/2016									73.9
12/7/2016	91.9								
12/8/2016		70.1	60.1			45.8	71.1	105	
3/28/2017					229				89.1
3/29/2017	95.7		64.7						
3/30/2017		72.5		68.1				98.6	
3/31/2017						48.3	62.6		
5/12/2017				71.1	233				
6/15/2017				65.9	224				
7/11/2017					249				84.6
7/12/2017	100	80.4		70					
7/13/2017			67.2			52.3	52.5	102	
10/24/2017					232				
10/25/2017	97.3	75.6	66.8			50.9			95.6
10/26/2017				67.2			46.7	94	
2/27/2018					245				108
2/28/2018	86.3	73.2	62.3			45.1			
3/1/2018				66.5			44.2		
3/2/2018								86.6	
7/11/2018	92.4	82.3				47.8			
7/12/2018			71	72			41.6	89.1	
11/6/2018					284				124
11/7/2018	85.9	78.5	60.9			45.5	38.6	88	
11/8/2018				73.5					
3/12/2019					295				110
3/13/2019	86.4	79.9							
3/14/2019			64.8	73.2		43.5	36.6	74.6	
10/15/2019					276				
10/16/2019									109
10/17/2019	86.9	79.8				44.1	36.2		
10/18/2019			61.7	67.7				72.7	
3/2/2020					320				116
3/3/2020		87.4	68.7						
3/4/2020	103			69.8		48.8	36	79.7	
9/22/2020	79.2				263	43.8			99.2
9/23/2020							22.3	72.2	
9/24/2020		80	62.6	73.7					
9/25/2020									
3/1/2021					322				
3/2/2021	74.7								114
3/3/2021		82.1	62.3	68.1		38.8	25.5	66	
3/8/2021									
9/9/2021		75.3		76.4					
9/10/2021	69.8		62.3		285		24.4	68.7	123
9/13/2021						38.9			
1/20/2022		83.7	67.3	82.7		38.1			
1/21/2022	104						31		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	82.7	64.9	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	76.8	59.3	
12/7/2016			
12/8/2016			
3/28/2017		71.6	
3/29/2017	90.5		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	91.1	73.7	
7/12/2017			
7/13/2017			
10/24/2017	78.1	92.5	
10/25/2017			
10/26/2017			
2/27/2018	64.2	73.1	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		88.5	
7/12/2018			
11/6/2018	57	81.1	
11/7/2018			
11/8/2018			
3/12/2019	54.3	78.1	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	47.3		
10/17/2019		75.6	
10/18/2019			
3/2/2020			
3/3/2020	46	59.5	
3/4/2020			
9/22/2020		54.7	
9/23/2020	39.3		
9/24/2020			
9/25/2020			44.7
3/1/2021			
3/2/2021	35.6	48.8	
3/3/2021			
3/8/2021			47.7
9/9/2021			
9/10/2021		47.7	
9/13/2021	36		51.5
1/20/2022			
1/21/2022			49.9

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
1/24/2022			
1/25/2022	36.8		
1/26/2022		48.4	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			154		85.4	90.5		105	
12/17/2020		71.5		43.2					
1/11/2021		73							
1/12/2021	56.3		156					103	
1/13/2021							40.3		
3/3/2021									
3/4/2021		79.7	150	42.1	83.9	86.6			
3/5/2021	68.9							110	
3/8/2021							40.2		
3/12/2021									
4/14/2021									52
4/15/2021									
9/9/2021									
9/10/2021		84.7					42.1		
9/13/2021	53.6			42.1	83.6				
9/14/2021			151			83.3		98.4	63
1/20/2022							40		83.6
1/24/2022			163		89.9	88.2		107	
1/25/2022				40					
1/26/2022	49.7								
1/27/2022		86.9							

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/14/2021			
4/15/2021	171		
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021	162		
1/20/2022	158		36.3
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		19.8	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<25								
1/30/2019		62.4							
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				
1/20/2022	22.9		18.6						
1/21/2022					40.8				
1/25/2022		54.9		36.4					
1/26/2022							96	141	198
1/27/2022						105			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	85.9
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	105
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	31.9
1/27/2022	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				11	11			3.1	
9/1/2016						13			
9/6/2016							16		19
9/7/2016									
12/6/2016				10	11			3.1	
12/7/2016						20 (O)	14		20
12/8/2016									
3/28/2017	3.7	3.8	3.6						
3/29/2017				11	12	13		3.8	
3/30/2017							16		21
5/11/2017	2.3								
5/12/2017			3.8						
5/15/2017		2.2							
6/15/2017	2.6	2							
6/16/2017			3.4						
7/11/2017		2.1	3.1						
7/12/2017	2.3			11	11	12	14	2.9	21
8/8/2017		2.2							
10/24/2017	2.7	2.4	3.2	11	12				
10/25/2017						13		3.5	21
11/15/2017	2.2		3.1	12			16		
2/27/2018		2.5	3.2	10.8	12.7	11.7		3.4	
2/28/2018							2.7		20.1
3/8/2018	2.4								
7/11/2018						11.3		3.2	21.4
7/12/2018	2.2								
11/6/2018		2.3	2.6	12.3	15.2				
11/7/2018	2.3					11.8	16.7	3.1	22.4
3/12/2019		2.5	3.3	12.1	14.5	12.1			
3/13/2019	3.6						12.4	3.4	
3/14/2019									24
10/15/2019		2.2	3.3	9.4	15.6	11.6			
10/16/2019	2						17.4	3.5	
10/17/2019									22
10/18/2019									
3/2/2020		1.9	3		15	8.9			
3/3/2020				8.4			9.4	4.1	22.7
3/4/2020									
3/9/2020	1.8								
9/22/2020	1.6	1.9	5.2		16	10.8		3.2	
9/23/2020							12.6		22.4
9/24/2020				5.9					
3/1/2021		1.9	3.9						
3/2/2021					14.4		13.1	3.5	22.8
3/3/2021						10.3			
3/4/2021				7.2					
3/12/2021	2								
9/8/2021			5.9						
9/9/2021	1.8	1.9			13.6	8.5	12.9	3.3	21.9
9/10/2021				8.2					
9/13/2021									
1/18/2022		1.9	5.9						

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		41	
9/6/2016			
9/7/2016	17		
12/6/2016			
12/7/2016		41	
12/8/2016	19		
3/28/2017			
3/29/2017		42	
3/30/2017	20		4.8
5/11/2017			4.4
5/12/2017			
5/15/2017			
6/15/2017			4.8
6/16/2017			
7/11/2017			4.6
7/12/2017	18	41	
8/8/2017			
10/24/2017			4.4
10/25/2017	19	41	
11/15/2017			
2/27/2018			4.1
2/28/2018	17	36.4	
3/8/2018			
7/11/2018	19.5	38.2	3.3
7/12/2018			
11/6/2018			3.7
11/7/2018	21.4	38.8	
3/12/2019			3.1
3/13/2019	19.9	40.1	
3/14/2019			
10/15/2019			
10/16/2019		33.2	
10/17/2019			2.8
10/18/2019	22		
3/2/2020			
3/3/2020		30.9	2.3
3/4/2020	19.6		
3/9/2020			
9/22/2020		27.6	
9/23/2020			2.1
9/24/2020	22.7		
3/1/2021			
3/2/2021		27	2.1
3/3/2021	20.9		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		25.4	2.1
9/10/2021			
9/13/2021	18.2		
1/18/2022			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			2
1/24/2022	19.2		
1/25/2022		23.7	
1/26/2022			
1/28/2022			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									8.6
9/1/2016							12	18	
9/2/2016	15	25	30						
9/7/2016						33			
12/6/2016									8
12/7/2016	16								
12/8/2016		24	26			32	12	17	
3/28/2017					29				9.5
3/29/2017	17		30						
3/30/2017		24		17				16	
3/31/2017						33	9.1		
5/12/2017				17	29				
6/15/2017				16	28				
7/11/2017					28				9
7/12/2017	18	23		16					
7/13/2017			29			33	5.7	15	
10/24/2017					28				
10/25/2017	20	23	29			32			9.4
10/26/2017				17			6.6	14	
11/15/2017					27				
2/27/2018					24.6				9.7
2/28/2018	18.6	19.9	23.4			29			
3/1/2018				14.8			10.7		
3/2/2018								12.8	
7/11/2018	20.4	20.9				29.3			
7/12/2018			26.1	15.2			9.5	11.7	
11/6/2018					24.8				10.2
11/7/2018	21.5	20.5	25.8			28.6	8.6	11.4	
11/8/2018				14.6					
3/12/2019					24.2				10.6
3/13/2019	24.8	21.3							
3/14/2019			26.3	15.2		24.8	6.6	10.2	
10/15/2019					20.9				
10/16/2019									11.6
10/17/2019	24.9	20.1				25.8	7		
10/18/2019			23.4	14.4				9.6	
3/2/2020					18.7				10.5
3/3/2020		19.7	21.8						
3/4/2020	27.8			13.9		23.6	4.4	9.1	
9/22/2020	25.8				17	22.1			10.5
9/23/2020							3.3	8	
9/24/2020		20	21.5	13.7					
9/25/2020									
3/1/2021					15				
3/2/2021	28								9.8
3/3/2021		19.7	20.6	14		20.8	2.9	14.2	
3/8/2021									
9/9/2021		20.2		12.3					
9/10/2021	26.2		17.3		13.9		2.4	10.9	9.9
9/13/2021						17.1			
1/20/2022		18.6	18.1	12		18.2			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	9.7	6	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	9.8	6.2	
12/7/2016			
12/8/2016			
3/28/2017		6.6	
3/29/2017	9.9		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	9.7	6.9	
7/12/2017			
7/13/2017			
10/24/2017	9.9	6.7	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	9.5	8.2	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		10.5	
7/12/2018			
11/6/2018	10.5	8.7	
11/7/2018			
11/8/2018			
3/12/2019	10.7	8.5	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	10.4		
10/17/2019		10	
10/18/2019			
3/2/2020			
3/3/2020	9.6	6.6	
3/4/2020			
9/22/2020		8	
9/23/2020	9.1		
9/24/2020			
9/25/2020			13.2
3/1/2021			
3/2/2021	8.6	8.4	
3/3/2021			
3/8/2021			12.9
9/9/2021			
9/10/2021		9	
9/13/2021	8.2		11.1
1/20/2022			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
1/21/2022			11.3
1/24/2022			
1/25/2022	9.3		
1/26/2022		9.1	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			7.7		12.5	29.1		12.8	
12/17/2020		10.3		8					
1/11/2021		9.8							
1/12/2021	20.6		7.5					15.7	
1/13/2021							3.1		
3/3/2021									
3/4/2021		10.4	7.9	7.8	13	29.4			
3/5/2021	9							39.2	
3/8/2021							3.9		
3/12/2021									
4/14/2021									7.9
4/15/2021									
9/9/2021									
9/10/2021		10.2					4.8		
9/13/2021	8.7			7	11.7				
9/14/2021			7.9			28.8		27.3	9
1/20/2022							3.7		15.8
1/24/2022			7.8		12.8	32.9		30.6	
1/25/2022				7.4					
1/26/2022	9								
1/27/2022		10.4							

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/14/2021			
4/15/2021	6.2		
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021	6.1		
1/20/2022	6		5.6
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		7.6	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	7.9								
1/30/2019		9.3							
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				
1/20/2022	15		5						
1/21/2022					2.4				
1/25/2022		8.7		9.9					
1/26/2022							9.4	14.7	19.8
1/27/2022						8.8			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	96.8
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	29.9
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	4.9
1/27/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.005	<0.005			<0.005	
9/1/2016						<0.005			
9/6/2016							<0.005		<0.005
9/7/2016									
12/6/2016				<0.005	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
12/8/2016									
3/28/2017	<0.005	0.0008 (J)	0.0023 (J)						
3/29/2017				0.0008 (J)	<0.005	<0.005		<0.005	
3/30/2017							0.0009 (J)		0.0005 (J)
5/11/2017	<0.005								
5/12/2017			0.0004 (J)						
5/15/2017		0.0006 (J)							
6/15/2017	<0.005	0.0006 (J)							
6/16/2017			0.0005 (J)						
7/11/2017		0.0005 (J)	<0.005						
7/12/2017	<0.005			0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017		0.0005 (J)							
10/24/2017	<0.005	0.0005 (J)	<0.005	0.0007 (J)	<0.005				
10/25/2017						<0.005		<0.005	<0.005
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		<0.005	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	<0.005	<0.005				
11/7/2018	<0.005					<0.005	<0.005	<0.005	<0.01 (J)
8/27/2019		0.00071 (J)	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005	<0.005	<0.005	
8/28/2019	<0.005						<0.005		<0.005
9/17/2019						<0.005			
10/15/2019		0.034 (O)	0.0025 (J)	0.00078 (J)	<0.005	<0.005			
10/16/2019	<0.005						<0.005	<0.005	
10/17/2019									0.00058 (J)
10/18/2019									
3/2/2020		0.0013 (J)	0.00045 (J)		0.0006 (J)	<0.005			
3/3/2020				0.00092 (J)			0.00066 (J)	<0.005	0.00046 (J)
3/4/2020									
3/9/2020	<0.005								
8/11/2020		0.0016 (J)	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.005	
8/12/2020							0.00074 (J)		
8/13/2020	<0.005								0.0048 (J)
8/14/2020									
9/22/2020	<0.005	0.00089 (J)	<0.005		0.00058 (J)	<0.005		<0.005	
9/23/2020							0.00059 (J)		<0.005
9/24/2020				0.001 (J)					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		<0.005	<0.005	<0.005
3/3/2021						0.00099 (J)			
3/4/2021				0.0009 (J)					
3/12/2021	<0.005								
9/8/2021			<0.005						

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Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0031 (J)	
9/6/2016			
9/7/2016	0.0026 (J)		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	0.0025 (J)		
3/28/2017			
3/29/2017		0.0025 (J)	
3/30/2017	0.0026 (J)		0.0005 (J)
5/11/2017			0.0005 (J)
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	0.0022 (J)	0.0023 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0024 (J)	0.0024 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	<0.005	<0.005	
3/8/2018			
7/11/2018	0.0024 (J)	0.0022 (J)	<0.005
7/12/2018			
11/6/2018			<0.005
11/7/2018	<0.005	<0.01 (J)	
8/27/2019	0.0031 (J)		0.0004 (J)
8/28/2019		0.0028 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0024 (J)	
10/17/2019			0.00046 (J)
10/18/2019	0.0027 (J)		
3/2/2020			
3/3/2020		0.0028 (J)	<0.005
3/4/2020	0.0035 (J)		
3/9/2020			
8/11/2020		0.0024 (J)	0.00067 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0033 (J)		
9/22/2020		0.003 (J)	
9/23/2020			<0.005
9/24/2020	0.0029 (J)		
3/1/2021			
3/2/2021		0.0024 (J)	0.00064 (J)
3/3/2021	0.0028 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.003 (J)	<0.005
9/10/2021			
9/13/2021	0.0027 (J)		
1/18/2022			
1/20/2022			<0.005
1/24/2022	0.0029 (J)		
1/25/2022		0.0029 (J)	
1/26/2022			
1/28/2022			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.005	<0.005	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.005	<0.005	
12/7/2016			
12/8/2016			
3/28/2017		0.001 (J)	
3/29/2017	0.0004 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.005	<0.005	
7/12/2017			
7/13/2017			
10/24/2017	<0.005	<0.005	
10/25/2017			
10/26/2017			
2/27/2018	<0.005	<0.005	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.005	
7/12/2018			
11/6/2018	<0.005	<0.005	
11/7/2018			
11/8/2018			
8/27/2019		0.00048 (J)	
8/28/2019	<0.005		
8/29/2019			
10/15/2019			
10/16/2019	0.0013 (J)		
10/17/2019		0.00051 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.00061 (J)	0.0057 (J)	
3/4/2020			
8/11/2020		0.00061 (J)	
8/12/2020	0.0028 (J)		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		<0.005	
9/23/2020	0.00086 (J)		
9/24/2020			
9/25/2020			0.00094 (J)
3/1/2021			
3/2/2021	0.0015 (J)	0.00059 (J)	
3/3/2021			
3/8/2021			0.00057 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.005	
9/13/2021	<0.005		<0.005
1/20/2022			
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.005		
1/26/2022		0.0029 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0011 (J)		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	<0.005	<0.005	<0.005	<0.005			
3/5/2021	<0.005							<0.005	
3/8/2021							0.00061 (J)		
3/12/2021									
4/14/2021									<0.005
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	0.0014 (J)			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	<0.005
1/20/2022							<0.005		<0.005
1/24/2022			<0.005		<0.005	<0.005		<0.005	
1/25/2022				<0.005					
1/26/2022	<0.005								
1/27/2022		<0.005							

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021	<0.005		
1/20/2022	<0.005		<0.005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0014 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				
1/20/2022	<0.005		<0.005						
1/21/2022					0.0034 (J)				
1/25/2022		<0.005		<0.005					
1/26/2022							<0.005	0.0011 (J)	<0.005
1/27/2022						<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.005
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.0013 (J)
1/27/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.193	<0.005			<0.005	
9/1/2016						0.0021 (J)			
9/6/2016							<0.005		0.0042 (J)
9/7/2016									
12/6/2016				0.2	0.0006 (J)			<0.005	
12/7/2016						0.0026 (J)	<0.005		0.0028 (J)
12/8/2016									
3/28/2017	0.025	0.0034 (J)	0.0033 (J)						
3/29/2017				0.184	<0.005	0.0026 (J)		<0.005	
3/30/2017							0.0005 (J)		0.0024 (J)
5/11/2017	0.0281								
5/12/2017			0.0016 (J)						
5/15/2017		0.0024 (J)							
6/15/2017	0.0322	0.0014 (J)							
6/16/2017			0.0011 (J)						
7/11/2017		0.0007 (J)	0.0008 (J)						
7/12/2017	0.0247			0.177	<0.005	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)
8/8/2017		0.0007 (J)							
10/24/2017	0.0267	<0.005	0.0004 (J)	0.175	<0.005				
10/25/2017						0.0021 (J)		<0.005	0.0019 (J)
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	0.2	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	0.027								
7/11/2018						0.002 (J)		<0.005	0.0018 (J)
7/12/2018	0.024								
11/6/2018		<0.005	<0.005	0.2	<0.005				
11/7/2018	0.018					<0.01 (J)	<0.005	<0.005	0.025
8/27/2019		<0.005	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005	
8/28/2019	0.013						<0.005		0.0015 (J)
9/17/2019						0.0079			
10/15/2019		0.00064 (J)	<0.005	0.17	0.0006 (J)	0.0058			
10/16/2019	0.009						<0.005	<0.005	
10/17/2019									0.0018 (J)
10/18/2019									
3/2/2020		0.00037 (J)	<0.005		0.00078 (J)	0.029			
3/3/2020				0.18			<0.005	<0.005	0.0018 (J)
3/4/2020									
3/9/2020	0.016								
8/11/2020		0.0012 (J)	<0.005	0.11	0.00055 (J)	0.006		<0.005	
8/12/2020							<0.005		
8/13/2020	0.0051								0.0024 (J)
8/14/2020									
9/22/2020	0.011	<0.005	<0.005		0.00098 (J)	0.013		<0.005	
9/23/2020							0.00038 (J)		0.0018 (J)
9/24/2020				0.086					
3/1/2021		<0.005	<0.005						
3/2/2021					0.00065 (J)		<0.005	<0.005	0.0013 (J)
3/3/2021						0.01			
3/4/2021				0.071					
3/12/2021	0.0078								
9/8/2021			<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0553	
9/6/2016			
9/7/2016	0.0247		
12/6/2016			
12/7/2016		0.0561	
12/8/2016	0.029		
3/28/2017			
3/29/2017		0.0534	
3/30/2017	0.0283		0.0255
5/11/2017			0.0284
5/12/2017			
5/15/2017			
6/15/2017			0.0238
6/16/2017			
7/11/2017			0.0238
7/12/2017	0.023	0.0489	
8/8/2017			
10/24/2017			0.0292
10/25/2017	0.0259	0.0514	
11/15/2017			
2/27/2018			0.042
2/28/2018	0.02	0.0511	
3/8/2018			
7/11/2018	0.025	0.051	0.02
7/12/2018			
11/6/2018			0.024
11/7/2018	<0.01 (J)	0.048	
8/27/2019	0.031		0.0088
8/28/2019		0.048	
9/17/2019			
10/15/2019			
10/16/2019		0.046	
10/17/2019			0.0084
10/18/2019	0.023		
3/2/2020			
3/3/2020		0.054	0.0073
3/4/2020	0.023		
3/9/2020			
8/11/2020		0.049	0.0064
8/12/2020			
8/13/2020			
8/14/2020	0.026		
9/22/2020		0.051	
9/23/2020			0.0062
9/24/2020	0.028		
3/1/2021			
3/2/2021		0.051	0.0055
3/3/2021	0.016		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.055	0.0048 (J)
9/10/2021			
9/13/2021	0.019		
1/18/2022			
1/20/2022			0.004 (J)
1/24/2022	0.019		
1/25/2022		0.054	
1/26/2022			
1/28/2022			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0568	0.0896	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0873	0.122	
12/7/2016			
12/8/2016			
3/28/2017		0.124	
3/29/2017	0.0902		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0601	0.136	
7/12/2017			
7/13/2017			
10/24/2017	0.123	0.151	
10/25/2017			
10/26/2017			
2/27/2018	0.126	0.163	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.18	
7/12/2018			
11/6/2018	0.077	0.2	
11/7/2018			
11/8/2018			
8/27/2019		0.24	
8/28/2019	0.051		
8/29/2019			
10/15/2019			
10/16/2019	0.054		
10/17/2019		0.21	
10/18/2019			
3/2/2020			
3/3/2020	0.044	0.2	
3/4/2020			
7/23/2020			0.086
8/3/2020			0.087
8/11/2020		0.22	
8/12/2020	0.053		
8/13/2020			
8/14/2020			
8/17/2020			0.077
9/22/2020		0.16	
9/23/2020	0.04		
9/24/2020			
9/25/2020			0.034
3/1/2021			
3/2/2021	0.033	0.18	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/3/2021			
3/8/2021			0.029
9/9/2021			
9/10/2021		0.21	
9/13/2021	0.028		0.035
1/20/2022			
1/21/2022			0.034
1/24/2022			
1/25/2022	0.019		
1/26/2022		0.22	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.17		0.0017 (J)	0.0048 (J)		0.00076 (J)	
12/17/2020		0.014		0.00087 (J)					
1/11/2021		0.015							
1/12/2021	0.0034 (J)		0.19					0.0007 (J)	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		0.014	0.19	0.0007 (J)	0.0012 (J)	0.0017 (J)			
3/5/2021	0.0023 (J)							0.00052 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.3
4/15/2021									
9/9/2021									
9/10/2021		0.013					<0.005		
9/13/2021	0.003 (J)			0.00056 (J)	0.00083 (J)				
9/14/2021			0.1			0.0017 (J)		<0.005	0.28
1/20/2022							<0.005		0.24
1/24/2022			0.1		0.00088 (J)	0.00061 (J)		0.00041 (J)	
1/25/2022				<0.005					
1/26/2022	0.0028 (J)								
1/27/2022		0.014							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.017		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021	0.0055		
1/20/2022	0.0045 (J)		<0.005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.052	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.053								
1/30/2019		<0.005							
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				
1/20/2022	0.039		<0.005						
1/21/2022					0.011				
1/25/2022		0.013		0.0039 (J)					
1/26/2022							0.071	0.064	0.003 (J)
1/27/2022						0.0038 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/19/2019	
2/17/2020	<0.005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	<0.005
9/13/2021	
9/14/2021	
9/15/2021	0.0048 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.005
1/27/2022	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				1.08	1.09			0.997 (U)	
9/1/2016						1.11			
9/6/2016							1.32		0.731 (U)
9/7/2016									
12/6/2016				1.31	0.409 (U)			0.659 (U)	
12/7/2016						2.66	1.76		1.73
12/8/2016									
3/28/2017	6.36	0.866 (U)	0.257 (U)						
3/29/2017				1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017							1.59		0.276 (U)
5/11/2017	3.45								
5/12/2017			0.165 (U)						
5/15/2017		0.288 (U)							
6/15/2017	4.58	1.01 (U)							
6/16/2017			0.732 (U)						
7/11/2017		0.254 (U)	0.461 (U)						
7/12/2017	4.37			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
8/8/2017		1.48							
10/24/2017	4.46	0.472 (U)	0.724 (U)	0.838 (U)	0.98 (U)				
10/25/2017						0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017							1.08 (U)		
2/27/2018		1.22	0.714 (U)	1.55	1.14	0.83		0.695 (U)	
2/28/2018							0.721 (U)		1.25
3/8/2018	2.14								
7/10/2018		0.362 (U)	0.426 (U)	1.65	0.495 (U)		0.746 (U)		
7/11/2018						0.728 (U)		1.04 (U)	2.13
7/12/2018	4.65								
11/6/2018		0.859 (U)	0.455 (U)	1.46	1.41				
11/7/2018	3.05					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019		1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019	2.68						1.43		1.01 (U)
10/15/2019		0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019	1.89						1.73	1.04 (U)	
10/17/2019									1.03 (U)
10/18/2019									
3/2/2020		0.419 (U)	1.3		1.3	1.2 (U)			
3/3/2020				1.69			1.03	1.44	0.293 (U)
3/4/2020									
3/9/2020	3.51								
8/11/2020		0.812 (U)	0.965 (U)	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020							1.63		
8/13/2020	1.04								3.58
8/14/2020									
9/22/2020	2.27	0.45 (U)	0.216 (U)		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020							0.935 (U)		1.69 (U)
9/24/2020				1.39					
3/1/2021		0.552 (U)	0.389 (U)						
3/2/2021					0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021						1.85			
3/4/2021				1.48					
3/12/2021	1.63								
9/8/2021			0.051 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		1.07 (U)	
9/6/2016			
9/7/2016	1.17		
12/6/2016			
12/7/2016		0.903 (U)	
12/8/2016	1.65		
3/28/2017			
3/29/2017		0.302 (U)	
3/30/2017	0.865 (U)		0.737 (U)
5/11/2017			0.892 (U)
5/12/2017			
5/15/2017			
6/15/2017			0.979 (U)
6/16/2017			
7/11/2017			0.871 (U)
7/12/2017	0.362 (U)	0.283 (U)	
8/8/2017			
10/24/2017			1.19
10/25/2017	0.401 (U)	0.927 (U)	
11/15/2017			
2/27/2018			0.863 (U)
2/28/2018	1.1 (U)	0.813 (U)	
3/8/2018			
7/10/2018			
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)
7/12/2018			
11/6/2018			0.664
11/7/2018	0.795 (U)	1.02	
8/27/2019	1.12		1.6
8/28/2019		0.661 (U)	
10/15/2019			
10/16/2019		1.79	
10/17/2019			1.74
10/18/2019	0.89 (U)		
3/2/2020			
3/3/2020		0.383 (U)	1.23
3/4/2020	0.493 (U)		
3/9/2020			
8/11/2020		0.723 (U)	1.37
8/12/2020			
8/13/2020			
8/14/2020	0.804 (U)		
9/22/2020		0.96 (U)	
9/23/2020			1.96 (U)
9/24/2020	0.369 (U)		
3/1/2021			
3/2/2021		0.775 (U)	1.54 (U)
3/3/2021	0.66 (U)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.239 (U)	1.22 (U)
9/10/2021			
9/13/2021	0.85 (U)		
1/18/2022			
1/20/2022			0.722 (U)
1/24/2022	0.692 (U)		
1/25/2022		0.415 (U)	
1/26/2022			
1/28/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									2.49
9/1/2016							4.47	2.37	
9/2/2016	1.48	0.908 (U)	1.54						
9/7/2016						0.876 (U)			
12/6/2016									0.348 (U)
12/7/2016	1.26 (U)								
12/8/2016		1.03 (U)	0.505 (U)			0.955	2.88	2.87	
3/28/2017					1.36				0.693 (U)
3/29/2017	0.373 (U)		0.715 (U)						
3/30/2017		0.884 (U)		0.297 (U)				1.71	
3/31/2017						0.102 (U)	1.14		
5/12/2017				0.693 (U)	1.15				
6/15/2017				0.435 (U)	0.765 (U)				
7/11/2017					1.13				1.38
7/12/2017	0.91 (U)	1.22		0.703 (U)					
7/13/2017			1.14			1.08 (U)	2.37	1.78	
10/24/2017					1.24				
10/25/2017	0.853 (U)	1.07 (U)	1.6			1.46			2.06
10/26/2017				0.984 (U)			2.88	3.74	
2/27/2018					1.82				1.97
2/28/2018	0.727 (U)	1.45	0.918 (U)			0.882 (U)			
3/1/2018				0.743 (U)			2.21		
3/2/2018								2.26	
7/10/2018					1.37				1.03 (U)
7/11/2018	1.3	1.59				0.924 (U)			
7/12/2018			0.981 (U)	0.918 (U)			1.73	1.81	
11/6/2018					1.2				1.13
11/7/2018	0.746 (U)	1.16	0.832 (U)			0.654 (U)	1.72	1.94	
11/8/2018				1.47					
8/27/2019					1.79				1.81
8/28/2019						0.883 (U)			
8/29/2019	0.996 (U)	0.582 (U)	1.87	2.21			3.05	2.37	
10/15/2019					2.11 (U)				
10/16/2019									1.63
10/17/2019	2	0.427 (U)				1.38	2.58		
10/18/2019			1.1 (U)	1.32				1.42	
3/2/2020					1.99				2.28
3/3/2020		0.567 (U)	0.517 (U)						
3/4/2020	1.67			1.39		0.722 (U)	1.68	1.31	
8/11/2020									
8/12/2020					1.95		2.56		1.13
8/13/2020	1.77			1.48 (U)		1.23 (U)		1.74	
8/14/2020		0.602 (U)	1.83						
8/17/2020									
9/22/2020	1.61 (U)				1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020							2.3 (U)	1.51 (U)	
9/24/2020		0.396 (U)	1.02 (U)	1.49					
9/25/2020									
3/1/2021					1.05 (U)				
3/2/2021	1.76								0.971 (U)
3/3/2021		0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.919 (U)	1.33	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.407 (U)	0.828 (U)	
12/7/2016			
12/8/2016			
3/28/2017		1.06	
3/29/2017	0.28 (U)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.209 (U)	0.62 (U)	
7/12/2017			
7/13/2017			
10/24/2017	0.615 (U)	1.21	
10/25/2017			
10/26/2017			
2/27/2018	1.05 (U)	1.79	
2/28/2018			
3/1/2018			
3/2/2018			
7/10/2018	0.363 (U)		
7/11/2018		1.81	
7/12/2018			
11/6/2018	0.577 (U)	1.13	
11/7/2018			
11/8/2018			
8/27/2019		1.55	
8/28/2019	0.815 (U)		
8/29/2019			
10/15/2019			
10/16/2019	0.999 (U)		
10/17/2019		0.702 (U)	
10/18/2019			
3/2/2020			
3/3/2020	0.481 (U)	1.37	
3/4/2020			
8/11/2020		0.819 (U)	
8/12/2020	0.721 (U)		
8/13/2020			
8/14/2020			
8/17/2020			1.4 (U)
9/22/2020		1.15 (U)	
9/23/2020	0.8 (U)		
9/24/2020			
9/25/2020			0.799 (U)
3/1/2021			
3/2/2021	0.751 (U)	1.29 (U)	
3/3/2021			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/8/2021			0.168 (U)
9/9/2021			
9/10/2021		1.28	
9/13/2021	0.916 (U)		0.774 (U)
1/20/2022			
1/21/2022			0.769 (U)
1/24/2022			
1/25/2022	0.356 (U)		
1/26/2022		0.789 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			15.2		1.49	1.31 (U)		12.3	
12/17/2020		1.22 (U)		0.952 (U)					
1/11/2021		0.635 (U)							
1/12/2021	1.91		17					9.63	
1/13/2021							11.8		
3/3/2021									
3/4/2021		0.789 (U)	14.5	0.681 (U)	2.14	2.02			
3/5/2021	2.17							9.05	
3/8/2021							12.1		
3/12/2021									
4/14/2021									14.7
4/15/2021									
9/9/2021									
9/10/2021		1.74					9.45		
9/13/2021	1.8			0.625 (U)	0.813 (U)				
9/14/2021			9.6			0.917 (U)		4.39	11.9
1/20/2022							16.2		9.86
1/24/2022			11.9		1.14 (U)	0.812 (U)		5.68	
1/25/2022				0.454 (U)					
1/26/2022	1.21								
1/27/2022		0.628 (U)							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			1.97 (U)
10/21/2019			1.82
8/13/2020			1.63
8/17/2020		1.15 (U)	
9/24/2020			1.28 (U)
9/28/2020		1.39	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		1.01 (U)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			1.18 (U)
4/14/2021			
4/15/2021	2.31		
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021	3.68		
1/20/2022	1.21 (U)		1.71
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.831 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/24/2020			0.761 (U)						
9/25/2020					0.0359 (U)	0.925 (U)			
9/28/2020				0.747 (U)				1.54	
3/4/2021			2.16		1.15 (U)				
3/5/2021						2.84			
3/9/2021								0.786 (U)	
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				
1/20/2022	0.846 (U)		0.92						
1/21/2022					0.549 (U)				
1/25/2022		0 (U)		0.33 (U)					
1/26/2022							1.27 (U)	0.758 (U)	1.47 (U)
1/27/2022						1.18			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	2.2
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.52 (U)
1/27/2022	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				1	0.06 (J)			0.06 (J)	
9/1/2016						0.02 (J)			
9/6/2016							0.17 (J)		0.11 (J)
9/7/2016									
12/6/2016				1.3	0.06 (J)			0.1 (J)	
12/7/2016						0.16 (J)	0.3		0.11 (J)
12/8/2016									
3/28/2017	0.12 (J)	1.2 (O)	0.06 (J)						
3/29/2017				1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017							0.12 (J)		<0.1
5/11/2017	0.07 (J)								
5/12/2017			<0.1						
5/15/2017		0.005 (J)							
6/15/2017	0.19 (J)	0.02 (J)							
6/16/2017			0.008 (J)						
7/11/2017		0.06 (J)	0.007 (J)						
7/12/2017	0.1 (J)			1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
8/8/2017		0.04 (J)							
10/24/2017	0.06 (J)	<0.1	<0.1	2.1	<0.1				
10/25/2017						0.6		<0.1	0.26 (J)
11/15/2017	0.05 (J)		<0.1	1.4			0.44		
2/27/2018		<0.1	<0.1	2.3	<0.1	0.34		<0.1	
2/28/2018							0.18		<0.1
3/8/2018	<0.1								
7/11/2018						<0.1		<0.1	<0.1
7/12/2018	0.071 (J)								
11/6/2018		<0.1	<0.1	2	<0.1				
11/7/2018	<0.1					<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019		0.039 (J)	<0.1	1.7	0.052 (J)	0.065 (J)			
3/13/2019	0.13 (J)						0.13 (J)	0.042 (J)	
3/14/2019									0.057 (J)
8/27/2019		<0.1	<0.1	1.4	<0.1	<0.1		<0.1	
8/28/2019	0.42						0.091 (J)		<0.1
10/15/2019		<0.1	<0.1	1.4	<0.1	<0.1			
10/16/2019	0.11 (J)						0.14 (J)	0.052 (J)	
10/17/2019									0.079 (J)
10/18/2019									
3/2/2020		<0.1	<0.1		0.064 (J)	0.071 (J)			
3/3/2020				1.5			0.078 (J)	<0.1	<0.1
3/4/2020									
3/9/2020	0.1 (J)								
8/11/2020		<0.1	<0.1	1.4	<0.1	<0.1		<0.1	
8/12/2020							0.051 (J)		
8/13/2020	0.062 (J)								<0.1
8/14/2020									
9/22/2020	0.099 (J)	<0.1	<0.1		<0.1	<0.1		<0.1	
9/23/2020							0.058 (J)		<0.1
9/24/2020				0.97					
3/1/2021		<0.1	<0.1						
3/2/2021					<0.1		0.084 (J)	<0.1	<0.1
3/3/2021						0.085 (J)			
3/4/2021				1.8					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.75	
9/6/2016			
9/7/2016	0.32		
12/6/2016			
12/7/2016		0.37	
12/8/2016	0.31		
3/28/2017			
3/29/2017		0.35	
3/30/2017	0.1 (J)		0.06 (J)
5/11/2017			0.06 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.07 (J)
6/16/2017			
7/11/2017			0.04 (J)
7/12/2017	0.27 (J)	0.34	
8/8/2017			
10/24/2017			0.43
10/25/2017	0.49	0.9	
11/15/2017			
2/27/2018			0.28
2/28/2018	0.54	1.2	
3/8/2018			
7/11/2018	0.15 (J)	0.37	0.6
7/12/2018			
11/6/2018			<0.1
11/7/2018	<0.3 (J)	<0.3 (J)	
3/12/2019			0.052 (J)
3/13/2019	0.084 (J)	0.22 (J)	
3/14/2019			
8/27/2019	0.24 (J)		<0.1
8/28/2019		0.2	
10/15/2019			
10/16/2019		0.23 (J)	
10/17/2019			0.042 (J)
10/18/2019	0.086 (J)		
3/2/2020			
3/3/2020		0.056 (J)	<0.1
3/4/2020	<0.1		
3/9/2020			
8/11/2020		0.2	<0.1
8/12/2020			
8/13/2020			
8/14/2020	0.069 (J)		
9/22/2020		0.084 (J)	
9/23/2020			<0.1
9/24/2020	0.056 (J)		
3/1/2021			
3/2/2021		0.19	<0.1
3/3/2021	0.085 (J)		
3/4/2021			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/12/2021			
9/8/2021			
9/9/2021		0.18	0.053 (J)
9/10/2021			
9/13/2021	0.063 (J)		
1/18/2022			
1/20/2022			<0.1
1/24/2022	<0.1		
1/25/2022		0.16	
1/26/2022			
1/28/2022			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.39	0.78	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.47	1.1	
12/7/2016			
12/8/2016			
3/28/2017		1.1	
3/29/2017	0.51		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.2 (J)	1.1	
7/12/2017			
7/13/2017			
10/24/2017	0.82	1.7	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	0.59	1.2	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		1.3	
7/12/2018			
11/6/2018	0.35	1.1	
11/7/2018			
11/8/2018			
3/12/2019	0.35	0.97	
3/13/2019			
3/14/2019			
8/27/2019		0.68	
8/28/2019	0.098 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.14 (J)		
10/17/2019		1.2	
10/18/2019			
3/2/2020			
3/3/2020	<0.1	1.4	
3/4/2020			
8/11/2020		1.3	
8/12/2020	0.056 (J)		
8/13/2020			
8/14/2020			
8/17/2020			<0.1
9/22/2020		0.99	
9/23/2020	<0.1		
9/24/2020			
9/25/2020			<0.1

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/1/2021			
3/2/2021	0.059 (J)	0.93	
3/3/2021			
3/8/2021			<0.1
9/9/2021			
9/10/2021		2	
9/13/2021	0.069 (J)		<0.1
1/20/2022			
1/21/2022			<0.1
1/24/2022			
1/25/2022	<0.1		
1/26/2022		1.2	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.33		<0.1	<0.1		0.33	
12/17/2020		0.079 (J)		0.052 (J)					
1/11/2021		0.077 (J)							
1/12/2021	0.052 (J)		0.36					0.32	
1/13/2021							0.17		
3/3/2021									
3/4/2021		0.11	0.43	0.055 (J)	<0.1	<0.1			
3/5/2021	0.053 (J)							0.51	
3/8/2021							0.14		
3/12/2021									
4/14/2021									0.99
4/15/2021									
9/9/2021									
9/10/2021		0.083 (J)					0.15		
9/13/2021	0.051 (J)			0.052 (J)	<0.1				
9/14/2021			0.5			<0.1		0.57	1
1/20/2022							0.11		0.59
1/24/2022			0.28		<0.1	<0.1		0.38	
1/25/2022				<0.1					
1/26/2022	<0.1								
1/27/2022		0.062 (J)							

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			0.43
10/21/2019			0.23 (J)
8/13/2020			0.11
8/17/2020		0.19	
9/24/2020			0.093 (J)
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/14/2021			
4/15/2021	<0.1		
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021	<0.1		
1/20/2022	<0.1		0.099 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.21	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.45								
1/30/2019		0.51							
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
8/13/2020			<0.1						
8/14/2020					0.05 (J)				
8/17/2020				<0.1		<0.1			
8/19/2020								0.32	
9/24/2020			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				
1/20/2022	0.12		<0.1						
1/21/2022					<0.1				
1/25/2022		0.12		<0.1					
1/26/2022							0.3	0.41	0.088 (J)
1/27/2022						<0.1			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.098 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.13
1/27/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.001	<0.001			<0.001	
9/1/2016						<0.001			
9/6/2016							<0.001		<0.001
9/7/2016									
12/6/2016				<0.001	<0.001			<0.001	
12/7/2016						<0.001	<0.001		0.0002 (J)
12/8/2016									
3/28/2017	<0.001	9E-05 (J)	<0.001						
3/29/2017				<0.001	<0.001	<0.001		<0.001	
3/30/2017							0.0002 (J)		0.0001 (J)
5/11/2017	<0.001								
5/12/2017			8E-05 (J)						
5/15/2017		0.0001 (J)							
6/15/2017	<0.001	0.0002 (J)							
6/16/2017			<0.001						
7/11/2017		<0.001	<0.001						
7/12/2017	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
8/8/2017		7E-05 (J)							
10/24/2017	<0.001	<0.001	<0.001	<0.001	<0.001				
10/25/2017						<0.001		<0.001	<0.001
11/15/2017							<0.001		
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/28/2018							<0.001		<0.001
3/8/2018	<0.001								
7/11/2018						<0.001		<0.001	<0.001
7/12/2018	<0.001								
11/6/2018		<0.001	<0.001	<0.001	<0.001				
11/7/2018	<0.001					<0.001	<0.001	<0.001	<0.001
8/27/2019		7.8E-05 (J)	<0.001	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019	<0.001						<0.001		5.9E-05 (J)
9/17/2019						<0.001			
10/15/2019		<0.001	<0.001	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019	<0.001						<0.001	<0.001	
10/17/2019									<0.001
10/18/2019									
3/2/2020		7.4E-05 (J)	<0.001		0.00015 (J)	<0.001			
3/3/2020				0.00011 (J)			<0.001	<0.001	<0.001
3/4/2020									
3/9/2020	<0.001								
8/11/2020		0.0003 (J)	<0.001	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020							<0.001		
8/13/2020	<0.001								0.0012 (J)
8/14/2020									
9/22/2020	<0.001	7.8E-05 (J)	<0.001		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020							9.8E-05 (J)		8.2E-05 (J)
9/24/2020				0.00013 (J)					
3/1/2021		<0.001	<0.001						
3/2/2021					<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021						<0.001			
3/4/2021				9.2E-05 (J)					
3/12/2021	<0.001								
9/8/2021			<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.001	
9/6/2016			
9/7/2016	<0.001		
12/6/2016			
12/7/2016		<0.001	
12/8/2016	<0.001		
3/28/2017			
3/29/2017		<0.001	
3/30/2017	0.0001 (J)		0.0001 (J)
5/11/2017			9E-05 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.0001 (J)
6/16/2017			
7/11/2017			<0.001
7/12/2017	<0.001	<0.001	
8/8/2017			
10/24/2017			<0.001
10/25/2017	<0.001	<0.001	
11/15/2017			
2/27/2018			<0.001
2/28/2018	<0.001	<0.001	
3/8/2018			
7/11/2018	<0.001	<0.001	<0.001
7/12/2018			
11/6/2018			<0.001
11/7/2018	<0.001	<0.001	
8/27/2019	9E-05 (J)		6E-05 (J)
8/28/2019		0.00026 (J)	
9/17/2019			
10/15/2019			
10/16/2019		<0.001	
10/17/2019			8.6E-05 (J)
10/18/2019	7.4E-05 (J)		
3/2/2020			
3/3/2020		7E-05 (J)	<0.001
3/4/2020	0.00013 (J)		
3/9/2020			
8/11/2020		5.3E-05 (J)	6.4E-05 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.00017 (J)		
9/22/2020		0.00016 (J)	
9/23/2020			9.4E-05 (J)
9/24/2020	7.9E-05 (J)		
3/1/2021			
3/2/2021		4.5E-05 (J)	0.00014 (J)
3/3/2021	0.00015 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.001	<0.001
9/10/2021			
9/13/2021	<0.001		
1/18/2022			
1/20/2022			<0.001
1/24/2022	<0.001		
1/25/2022		<0.001	
1/26/2022			
1/28/2022			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.001	<0.001	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.001	<0.001	
12/7/2016			
12/8/2016			
3/28/2017		<0.001	
3/29/2017	0.0001 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.001	<0.001	
7/12/2017			
7/13/2017			
10/24/2017	<0.001	<0.001	
10/25/2017			
10/26/2017			
2/27/2018	<0.001	<0.001	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.001	
7/12/2018			
11/6/2018	<0.001	<0.001	
11/7/2018			
11/8/2018			
8/27/2019		<0.001	
8/28/2019	8.2E-05 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.00029 (J)		
10/17/2019		<0.001	
10/18/2019			
3/2/2020			
3/3/2020	0.00023 (J)	0.00017 (J)	
3/4/2020			
8/11/2020		<0.001	
8/12/2020	0.0007 (J)		
8/13/2020			
8/14/2020			
8/17/2020			8.8E-05 (J)
9/22/2020		0.00015 (J)	
9/23/2020	0.00011 (J)		
9/24/2020			
9/25/2020			0.00021 (J)
3/1/2021			
3/2/2021	0.00027 (J)	0.00028 (J)	
3/3/2021			
3/8/2021			0.00018 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.001	
9/13/2021	<0.001		<0.001
1/20/2022			
1/21/2022			<0.001
1/24/2022			
1/25/2022	<0.001		
1/26/2022		<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			5.1E-05 (J)		4.4E-05 (J)	<0.001		5.8E-05 (J)	
12/17/2020		3.7E-05 (J)		<0.001					
1/11/2021		5E-05 (J)							
1/12/2021	<0.001		<0.001					5.1E-05 (J)	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001			
3/5/2021	6.5E-05 (J)							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									0.00032 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001
1/20/2022							<0.001		<0.001
1/24/2022			<0.001		<0.001	<0.001		<0.001	
1/25/2022				<0.001					
1/26/2022	<0.001								
1/27/2022		<0.001							

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	0.00019 (J)		
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021	<0.001		
1/20/2022	<0.001		<0.001
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						0.0022			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.001
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.001
1/27/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016						<0.03			
9/6/2016							0.0029 (J)		0.0064 (J)
9/7/2016									
12/6/2016				<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016						<0.03	0.003 (J)		0.0066 (J)
12/8/2016									
3/28/2017	0.0108 (J)	0.0054 (J)	0.0025 (J)						
3/29/2017				0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017							0.0035 (J)		0.0061 (J)
5/11/2017	0.0087 (J)								
5/12/2017			0.0016 (J)						
5/15/2017		0.002 (J)							
6/15/2017	0.0088 (J)	<0.03							
6/16/2017			0.0016 (J)						
7/11/2017		<0.03	<0.03						
7/12/2017	0.0075 (J)			0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
8/8/2017		<0.03							
10/24/2017	0.0103 (J)	<0.03	<0.03	0.0022 (J)	0.0024 (J)				
10/25/2017						<0.03		0.0032 (J)	0.0061 (J)
11/15/2017							0.0028 (J)		
2/27/2018		<0.03	0.0013 (J)	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018							<0.03		0.0062 (J)
3/8/2018	0.011 (J)								
7/11/2018						<0.03		0.0034 (J)	0.0058 (J)
7/12/2018	0.0084 (J)								
11/6/2018		<0.03	<0.03	<0.03	<0.03				
11/7/2018	<0.03					<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019		<0.03	0.0014 (J)	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019	0.0092 (J)						0.0033 (J)		0.0063 (J)
9/17/2019						0.0011 (J)			
10/15/2019		<0.03	0.0012 (J)	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019	0.0094 (J)						0.0029 (J)	0.0032 (J)	
10/17/2019									0.0064 (J)
10/18/2019									
3/2/2020		<0.03	0.0011 (J)		0.0023 (J)	<0.03			
3/3/2020				0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
3/4/2020									
3/9/2020	0.0077 (J)								
8/11/2020		0.0019 (J)	0.0015 (J)	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020							0.0034 (J)		
8/13/2020	0.0085 (J)								0.0089 (J)
8/14/2020									
9/22/2020	0.0089 (J)	<0.03	0.0012 (J)		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020							0.0033 (J)		0.006 (J)
9/24/2020				0.0049 (J)					
3/1/2021		<0.03	0.0012 (J)						
3/2/2021					0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021						<0.03			
3/4/2021				0.0042 (J)					
3/12/2021	0.0083 (J)								
9/8/2021			0.0013 (J)						

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0034 (J)	
9/6/2016			
9/7/2016	<0.03		
12/6/2016			
12/7/2016		0.0034 (J)	
12/8/2016	<0.03		
3/28/2017			
3/29/2017		0.0031 (J)	
3/30/2017	<0.03		0.0807
5/11/2017			0.085
5/12/2017			
5/15/2017			
6/15/2017			0.0781
6/16/2017			
7/11/2017			0.0731
7/12/2017	<0.03	0.0032 (J)	
8/8/2017			
10/24/2017			0.0995
10/25/2017	<0.03	0.0031 (J)	
11/15/2017			
2/27/2018			0.0875
2/28/2018	<0.03	0.0031 (J)	
3/8/2018			
7/11/2018	<0.03	0.0034 (J)	0.033 (J)
7/12/2018			
11/6/2018			<0.03
11/7/2018	<0.03	<0.03	
8/27/2019	0.00089 (J)		0.032
8/28/2019		0.0032 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0026 (J)	
10/17/2019			0.029 (J)
10/18/2019	0.00096 (J)		
3/2/2020			
3/3/2020		0.0034 (J)	0.026 (J)
3/4/2020	0.0011 (J)		
3/9/2020			
8/11/2020		0.0031 (J)	0.028 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0015 (J)		
9/22/2020		0.0034 (J)	
9/23/2020			0.022 (J)
9/24/2020	0.00096 (J)		
3/1/2021			
3/2/2021		0.003 (J)	0.023 (J)
3/3/2021	0.0011 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0035 (J)	0.024 (J)
9/10/2021			
9/13/2021	<0.03		
1/18/2022			
1/20/2022			0.024 (J)
1/24/2022	<0.03		
1/25/2022		0.0031 (J)	
1/26/2022			
1/28/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.005 (J)	0.0212 (J)	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0066 (J)	0.0242 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0249 (J)	
3/29/2017	0.0059 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0045 (J)	0.022 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0072 (J)	0.0281 (J)	
10/25/2017			
10/26/2017			
2/27/2018	0.0075 (J)	0.031 (J)	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.028 (J)	
7/12/2018			
11/6/2018	<0.03	<0.03	
11/7/2018			
11/8/2018			
8/27/2019		0.031	
8/28/2019	0.0048 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.0045 (J)		
10/17/2019		0.029 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.0052 (J)	0.028 (J)	
3/4/2020			
8/11/2020		0.032	
8/12/2020	0.0058 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.0013 (J)
9/22/2020		0.025 (J)	
9/23/2020	0.0045 (J)		
9/24/2020			
9/25/2020			0.0027 (J)
3/1/2021			
3/2/2021	0.0046 (J)	0.028 (J)	
3/3/2021			
3/8/2021			0.0024 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.027 (J)	
9/13/2021	0.0034 (J)		0.0022 (J)
1/20/2022			
1/21/2022			0.0021 (J)
1/24/2022			
1/25/2022	0.0032 (J)		
1/26/2022		0.029 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.039 (J)		0.017 (J)	0.016 (J)		0.021 (J)	
12/17/2020		0.012 (J)		0.0048 (J)					
1/11/2021		0.015 (J)							
1/12/2021	0.012 (J)		0.039					0.021 (J)	
1/13/2021							0.016 (J)		
3/3/2021									
3/4/2021		0.014 (J)	0.038	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021	0.015 (J)							0.028 (J)	
3/8/2021							0.014 (J)		
3/12/2021									
4/14/2021									0.089
4/15/2021									
9/9/2021									
9/10/2021		0.012 (J)					0.013 (J)		
9/13/2021	0.011 (J)			0.0056 (J)	0.014 (J)				
9/14/2021			0.036			0.015 (J)		0.029 (J)	0.085
1/20/2022							0.014 (J)		0.081
1/24/2022			0.036		0.015 (J)	0.014 (J)		0.026 (J)	
1/25/2022				0.0055 (J)					
1/26/2022	0.0098 (J)								
1/27/2022		0.013 (J)							

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.03
9/11/2019			0.0078 (J)
10/21/2019			0.0078 (J)
8/13/2020			0.0087 (J)
8/17/2020		0.0056 (J)	
9/24/2020			0.0084 (J)
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/14/2021			
4/15/2021	0.088		
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021	0.077		
1/20/2022	0.079		0.0092 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0061 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.03								
1/30/2019		<0.03							
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				
1/20/2022	0.0062 (J)		<0.03						
1/21/2022					0.0022 (J)				
1/25/2022		0.00073 (J)		0.00082 (J)					
1/26/2022							0.015 (J)	0.013 (J)	0.0047 (J)
1/27/2022						0.0066 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0012 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.0013 (J)
1/27/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016						9E-05 (J)			
9/6/2016							<0.0002		<0.0002
9/7/2016									
12/6/2016				9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016						<0.0002	9E-05 (J)		<0.0002
12/8/2016									
3/28/2017	<0.0002	<0.0002	<0.0002						
3/29/2017				8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017							7E-05 (J)		6E-05 (J)
5/11/2017	<0.0002								
5/12/2017			6E-05 (J)						
5/15/2017		<0.0002							
6/15/2017	8E-05 (J)	7E-05 (J)							
6/16/2017			7E-05 (J)						
7/11/2017		<0.0002	<0.0002						
7/12/2017	<0.0002			<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
8/8/2017		<0.0002							
10/24/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
10/25/2017						6E-05 (J)		<0.0002	<0.0002
11/15/2017							<0.0002		
2/27/2018		<0.0002	<0.0002	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018							<0.0002		<0.0002
3/8/2018	<0.0002								
7/11/2018						3.6E-05 (J)		<0.0002	<0.0002
7/12/2018	<0.0002								
11/6/2018		<0.0002	<0.0002	<0.0002	<0.0002				
11/7/2018	<0.0002					<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019	<0.0002						<0.0002		<0.0002
9/17/2019						<0.0002			
10/15/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
10/16/2019	<0.0002						<0.0002	<0.0002	
10/17/2019									<0.0002
10/18/2019									
3/2/2020		<0.0002	<0.0002		<0.0002	<0.0002			
3/3/2020				<0.0002			<0.0002	<0.0002	<0.0002
3/4/2020									
3/9/2020	<0.0002								
8/11/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020							<0.0002		
8/13/2020	<0.0002								<0.0002
8/14/2020									
9/22/2020	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	
9/23/2020							<0.0002		<0.0002
9/24/2020				8.1E-05 (J)					
3/1/2021		<0.0002	9E-05 (J)						
3/2/2021					<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021						<0.0002			
3/4/2021				<0.0002					
3/12/2021	<0.0002								
9/8/2021			9.6E-05 (J)						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		4E-05 (J)	
9/6/2016			
9/7/2016	6E-05 (J)		
12/6/2016			
12/7/2016		5E-05 (J)	
12/8/2016	<0.0002		
3/28/2017			
3/29/2017		9E-05 (J)	
3/30/2017	0.00012 (J)		7E-05 (J)
5/11/2017			8.3E-05 (J)
5/12/2017			
5/15/2017			
6/15/2017			8E-05 (J)
6/16/2017			
7/11/2017			<0.0002
7/12/2017	5E-05 (J)	<0.0002	
8/8/2017			
10/24/2017			<0.0002
10/25/2017	5E-05 (J)	<0.0002	
11/15/2017			
2/27/2018			<0.0002
2/28/2018	<0.0002	<0.0002	
3/8/2018			
7/11/2018	<0.0002	<0.0002	<0.0002
7/12/2018			
11/6/2018			0.00064
11/7/2018	<0.0002	<0.0002	
8/27/2019	0.00016 (J)		<0.0002
8/28/2019		<0.0002	
9/17/2019			
10/15/2019			
10/16/2019		<0.0002	
10/17/2019			<0.0002
10/18/2019	<0.0002		
3/2/2020			
3/3/2020		<0.0002	<0.0002
3/4/2020	<0.0002		
3/9/2020			
8/11/2020		<0.0002	<0.0002
8/12/2020			
8/13/2020			
8/14/2020	9.8E-05 (J)		
9/22/2020		<0.0002	
9/23/2020			<0.0002
9/24/2020	8.2E-05 (J)		
3/1/2021			
3/2/2021		<0.0002	<0.0002
3/3/2021	<0.0002		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.0002	<0.0002
9/10/2021			
9/13/2021	8.6E-05 (J)		
1/18/2022			
1/20/2022			<0.0002
1/24/2022	<0.0002		
1/25/2022		<0.0002	
1/26/2022			
1/28/2022			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.00015 (J)
9/1/2016							<0.0002	<0.0002	
9/2/2016	<0.0002	6E-05 (J)	5E-05 (J)						
9/7/2016						<0.0002			
12/6/2016									0.00012 (J)
12/7/2016	8E-05 (J)								
12/8/2016		<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
3/28/2017					<0.0002				0.00017 (J)
3/29/2017	8E-05 (J)		0.0001 (J)						
3/30/2017		8E-05 (J)		0.0002 (J)				6E-05 (J)	
3/31/2017						4E-05 (J)	<0.0002		
5/12/2017				0.00015 (J)	8.2E-05 (J)				
6/15/2017				0.00019 (J)	8E-05 (J)				
7/11/2017					<0.0002				0.0002 (J)
7/12/2017	<0.0002	6E-05 (J)		0.00012 (J)					
7/13/2017			<0.0002			<0.0002	<0.0002	<0.0002	
10/24/2017					<0.0002				
10/25/2017	<0.0002	5E-05 (J)	<0.0002			<0.0002			9E-05 (J)
10/26/2017				0.00012 (J)			<0.0002	<0.0002	
2/27/2018					<0.0002				9E-05 (J)
2/28/2018	<0.0002	<0.0002	<0.0002			<0.0002			
3/1/2018				<0.0002			<0.0002		
3/2/2018								<0.0002	
7/11/2018	<0.0002	<0.0002				<0.0002			
7/12/2018			5.5E-05 (J)	0.00016 (J)			<0.0002	<0.0002	
11/6/2018					0.00059				0.00055
11/7/2018	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
11/8/2018				<0.0002					
8/27/2019					<0.0002				0.00016 (J)
8/28/2019						<0.0002			
8/29/2019	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	
10/15/2019					<0.0002				
10/16/2019									<0.0002
10/17/2019	<0.0002	<0.0002				<0.0002	<0.0002		
10/18/2019			<0.0002	<0.0002				<0.0002	
3/2/2020					<0.0002				<0.0002
3/3/2020		<0.0002	<0.0002						
3/4/2020	<0.0002			0.00026		<0.0002	<0.0002	<0.0002	
8/11/2020									
8/12/2020					<0.0002		<0.0002		0.00017 (J)
8/13/2020	<0.0002			0.00014 (J)		<0.0002		<0.0002	
8/14/2020		<0.0002	<0.0002						
8/17/2020									
9/22/2020	<0.0002				<0.0002	<0.0002			0.0002 (J)
9/23/2020							<0.0002	<0.0002	
9/24/2020		0.00012 (J)	<0.0002	0.0002 (J)					
9/25/2020									
3/1/2021					<0.0002				
3/2/2021	9E-05 (J)								9.4E-05 (J)
3/3/2021		<0.0002	<0.0002	0.00033		<0.0002	<0.0002	<0.0002	
9/9/2021		<0.0002		0.00011 (J)					

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	9E-05 (J)	<0.0002	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.0001 (J)	5E-05 (J)	
12/7/2016			
12/8/2016			
3/28/2017		<0.0002	
3/29/2017	0.00012 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	6E-05 (J)	<0.0002	
7/12/2017			
7/13/2017			
10/24/2017	<0.0002	<0.0002	
10/25/2017			
10/26/2017			
2/27/2018	4.2E-05 (J)	4.2E-05 (J)	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.0002	
7/12/2018			
11/6/2018	<0.0002	<0.0002	
11/7/2018			
11/8/2018			
8/27/2019		0.00021 (J)	
8/28/2019	<0.0002		
8/29/2019			
10/15/2019			
10/16/2019	<0.0002		
10/17/2019		0.00042 (J)	
10/18/2019			
3/2/2020			
3/3/2020	<0.0002	<0.0002	
3/4/2020			
8/11/2020		0.00026	
8/12/2020	7.9E-05 (J)		
8/13/2020			
8/14/2020			
8/17/2020			0.00011 (J)
9/22/2020		0.00013 (J)	
9/23/2020	<0.0002		
9/24/2020			
9/25/2020			<0.0002
3/1/2021			
3/2/2021	<0.0002	0.00017 (J)	
3/3/2021			
9/9/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/10/2021		0.00014 (J)	
9/13/2021	<0.0002		<0.0002
1/20/2022			
1/21/2022			<0.0002
1/24/2022			
1/25/2022	<0.0002		
1/26/2022		0.00014 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			7.9E-05 (J)		0.00016 (J)	0.00014 (J)		9.4E-05 (J)	
12/17/2020		<0.0002		<0.0002					
1/11/2021		<0.0002							
1/12/2021	<0.0002		<0.0002					<0.0002	
1/13/2021							<0.0002		
3/3/2021									
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
3/5/2021	0.00014 (J)							<0.0002	
3/8/2021							<0.0002		
3/12/2021									
4/14/2021									<0.0002
4/15/2021									
9/9/2021									
9/10/2021		<0.0002					<0.0002		
9/13/2021	<0.0002			<0.0002	<0.0002				
9/14/2021			<0.0002			<0.0002		<0.0002	<0.0002
1/20/2022							<0.0002		<0.0002
1/24/2022			<0.0002		<0.0002	<0.0002		<0.0002	
1/25/2022				<0.0002					
1/26/2022	<0.0002								
1/27/2022		<0.0002							

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0002
4/14/2021			
4/15/2021	<0.0002		
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021	<0.0002		
1/20/2022	<0.0002		<0.0002
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0002								
1/30/2019		<0.0002							
9/11/2019	<0.0002								
9/12/2019		<0.0002							
9/18/2019			<0.0002						
9/23/2019				<0.0002					
10/21/2019		<0.0002		<0.0002	<0.0002				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				
1/20/2022	<0.0002		<0.0002						
1/21/2022					<0.0002				
1/25/2022		<0.0002		<0.0002					
1/26/2022							<0.0002	<0.0002	<0.0002
1/27/2022						<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.0002
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.0002
1/27/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.01	<0.01			<0.01	
9/1/2016						<0.01			
9/6/2016							0.0371		<0.01
9/7/2016									
12/6/2016				<0.01	<0.01			<0.01	
12/7/2016						<0.01	0.0273		<0.01
12/8/2016									
3/28/2017	0.0242	<0.01	0.0009 (J)						
3/29/2017				<0.01	<0.01	<0.01		<0.01	
3/30/2017							0.03		<0.01
5/11/2017	0.0375								
5/12/2017			<0.01						
5/15/2017		<0.01							
6/15/2017	0.0409	<0.01							
6/16/2017			<0.01						
7/11/2017		<0.01	<0.01						
7/12/2017	0.0321			<0.01	<0.01	<0.01	0.0323	<0.01	<0.01
8/8/2017		<0.01							
10/24/2017	0.0227	<0.01	<0.01	<0.01	<0.01				
10/25/2017						<0.01		<0.01	<0.01
11/15/2017							0.0275		
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
2/28/2018							0.0093 (J)		<0.01
3/8/2018	0.035								
7/11/2018						<0.01		<0.01	<0.01
7/12/2018	0.034								
11/6/2018		<0.01	<0.01	<0.01	<0.01				
11/7/2018	0.029					<0.01	0.018	<0.01	<0.01
8/27/2019		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
8/28/2019	0.031						0.015		<0.01
9/17/2019						<0.01			
10/15/2019		<0.01	<0.01	<0.01	<0.01	<0.01			
10/16/2019	0.037						0.014	<0.01	
10/17/2019									<0.01
10/18/2019									
3/2/2020		<0.01	<0.01		<0.01	<0.01			
3/3/2020				<0.01			0.018	<0.01	<0.01
3/4/2020									
3/9/2020	0.026								
8/11/2020		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
8/12/2020							0.012		
8/13/2020	0.012								<0.01
8/14/2020									
9/22/2020	0.039	<0.01	<0.01		<0.01	<0.01		<0.01	
9/23/2020							0.012		<0.01
9/24/2020				<0.01					
3/1/2021		<0.01	<0.01						
3/2/2021					<0.01		0.011	<0.01	<0.01
3/3/2021						<0.01			
3/4/2021				<0.01					
3/12/2021	0.018								
9/8/2021			<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.01	
9/6/2016			
9/7/2016	<0.01		
12/6/2016			
12/7/2016		<0.01	
12/8/2016	<0.01		
3/28/2017			
3/29/2017		<0.01	
3/30/2017	<0.01		0.0009 (J)
5/11/2017			0.0009 (J)
5/12/2017			
5/15/2017			
6/15/2017			<0.01
6/16/2017			
7/11/2017			<0.01
7/12/2017	<0.01	<0.01	
8/8/2017			
10/24/2017			<0.01
10/25/2017	<0.01	<0.01	
11/15/2017			
2/27/2018			<0.01
2/28/2018	<0.01	<0.01	
3/8/2018			
7/11/2018	<0.01	<0.01	<0.01
7/12/2018			
11/6/2018			<0.01
11/7/2018	<0.01	<0.01	
8/27/2019	<0.01		0.002 (J)
8/28/2019		<0.01	
9/17/2019			
10/15/2019			
10/16/2019		<0.01	
10/17/2019			0.0018 (J)
10/18/2019	<0.01		
3/2/2020			
3/3/2020		<0.01	0.0022 (J)
3/4/2020	<0.01		
3/9/2020			
8/11/2020		<0.01	0.002 (J)
8/12/2020			
8/13/2020			
8/14/2020	<0.01		
9/22/2020		<0.01	
9/23/2020			0.0022 (J)
9/24/2020	<0.01		
3/1/2021			
3/2/2021		<0.01	0.0021 (J)
3/3/2021	<0.01		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.01	0.0023 (J)
9/10/2021			
9/13/2021	<0.01		
1/18/2022			
1/20/2022			0.0022 (J)
1/24/2022	<0.01		
1/25/2022		<0.01	
1/26/2022			
1/28/2022			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.01	<0.01	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.01	<0.01	
12/7/2016			
12/8/2016			
3/28/2017		<0.01	
3/29/2017	<0.01		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	<0.01	<0.01	
7/12/2017			
7/13/2017			
10/24/2017	<0.01	<0.01	
10/25/2017			
10/26/2017			
2/27/2018	<0.01	<0.01	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.01	
7/12/2018			
11/6/2018	<0.01	<0.01	
11/7/2018			
11/8/2018			
8/27/2019		<0.01	
8/28/2019	<0.01		
8/29/2019			
10/15/2019			
10/16/2019	<0.01		
10/17/2019		<0.01	
10/18/2019			
3/2/2020			
3/3/2020	<0.01	<0.01	
3/4/2020			
8/11/2020		<0.01	
8/12/2020	<0.01		
8/13/2020			
8/14/2020			
8/17/2020			<0.01
9/22/2020		<0.01	
9/23/2020	<0.01		
9/24/2020			
9/25/2020			<0.01
3/1/2021			
3/2/2021	<0.01	<0.01	
3/3/2021			
3/8/2021			<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.01	
9/13/2021	<0.01		<0.01
1/20/2022			
1/21/2022			<0.01
1/24/2022			
1/25/2022	<0.01		
1/26/2022		<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0012 (J)		<0.01	<0.01		0.0055 (J)	
12/17/2020		<0.01		<0.01					
1/11/2021		<0.01							
1/12/2021	0.0022 (J)		<0.01					0.0054 (J)	
1/13/2021							0.0022 (J)		
3/3/2021									
3/4/2021		<0.01	<0.01	<0.01	<0.01	<0.01			
3/5/2021	<0.01							0.0067 (J)	
3/8/2021							0.0014 (J)		
3/12/2021									
4/14/2021									<0.01
4/15/2021									
9/9/2021									
9/10/2021		<0.01					0.0011 (J)		
9/13/2021	<0.01			<0.01	<0.01				
9/14/2021			<0.01			<0.01		0.013	<0.01
1/20/2022							0.0012 (J)		<0.01
1/24/2022			0.00083 (J)		<0.01	<0.01		0.0052 (J)	
1/25/2022				<0.01					
1/26/2022	<0.01								
1/27/2022		<0.01							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/14/2021			
4/15/2021	0.00089 (J)		
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021	<0.01		
1/20/2022	<0.01		<0.01
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.01								
1/30/2019		<0.01							
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				
1/20/2022	<0.01		<0.01						
1/21/2022					<0.01				
1/25/2022		<0.01		<0.01					
1/26/2022							<0.01	<0.01	<0.01
1/27/2022						<0.01			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.01
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.0015 (J)
1/27/2022	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				4.58	5.83			5.68	
9/1/2016					5.67				
9/6/2016							5.69		5.79
9/7/2016									
12/6/2016				4.9	5.91			5.63	
12/7/2016						5.65	5.96		5.94
12/8/2016									
3/28/2017	6.29		5.94						
3/29/2017				4.62	5.74	5.61		5.68	
3/30/2017							5.94		5.8
5/11/2017	6.6								
5/12/2017			5.46						
5/15/2017		5.72							
6/15/2017	6.41	5.74							
6/16/2017			5.81						
7/11/2017		5.62	5.74						
7/12/2017	5.91			4.81	5.82	5.81	5.84	5.66	5.81
8/8/2017		5.6							
10/24/2017	5.51	5.71	5.86	4.8	5.79				
10/25/2017						6.07		6.18	5.9
11/15/2017	6.5		5.77	4.9			5.87		
2/27/2018		5.5	5.66	5.55	5.94	5.73		5.63	
2/28/2018							5.99		5.8
3/8/2018	6.18								
7/10/2018		5.44	5.63	5.27	5.62		5.92		
7/11/2018								5.61	5.87
7/12/2018	6.33								
11/6/2018		5.71	5.79	5.3	5.69				
11/7/2018	6.22					5.85	5.87	5.58	5.9
3/12/2019		5.52	5.74	5.26	5.7	5.98			
3/13/2019	6						5.79	5.61	
3/14/2019									5.77
8/27/2019		5.53	5.87	5.14	5.55	5.55		5.58	
8/28/2019	6.04						5.71		5.88
9/17/2019						5.6			
10/15/2019		5.61	5.88	4.96	5.6	5.89			
10/16/2019	6.69						5.69	5.66	
10/17/2019									5.76
10/18/2019									
3/2/2020		5.54	5.77		5.62	6.13			
3/3/2020				4.77			5.71	5.73	5.79
3/4/2020									
3/9/2020	6.41								
8/11/2020		5.86	5.96	4.92	5.68	5.69		5.73	
8/12/2020							5.68		
8/13/2020	6.17								6.58
8/14/2020									
9/22/2020	6.43	6.01	6.06		5.54	6		5.7	
9/23/2020							5.72		5.85
9/24/2020				4.89					
3/1/2021		5.43	5.8						
3/2/2021					5.59		5.68	5.69	5.81

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		4.64	
9/6/2016			
9/7/2016	5.05		
12/6/2016			
12/7/2016		4.63	
12/8/2016	5.12		
3/28/2017			
3/29/2017		4.7	
3/30/2017	5.08		5.75
5/11/2017			5.67
5/12/2017			
5/15/2017			
6/15/2017			5.75
6/16/2017			
7/11/2017			5.87
7/12/2017	5	4.76	
8/8/2017			
10/24/2017			5.82
10/25/2017	5.73	4.66	
11/15/2017			
2/27/2018			5.85
2/28/2018	5.22	4.63	
3/8/2018			
7/10/2018			
7/11/2018	5.07	4.71	5.85
7/12/2018			
11/6/2018			5.88
11/7/2018	5.09	4.69	
3/12/2019			5.94
3/13/2019	5.07	4.76	
3/14/2019			
8/27/2019	4.96		5.94
8/28/2019		4.85	
9/17/2019			
10/15/2019			
10/16/2019		4.87	
10/17/2019			6.16
10/18/2019	5.08		
3/2/2020			
3/3/2020	5.07	4.89	5.94
3/4/2020	5.07		
3/9/2020			
8/11/2020		4.9	6.04
8/12/2020			
8/13/2020			
8/14/2020	5.01		
9/22/2020		4.91	
9/23/2020			5.99
9/24/2020	5.1		
3/1/2021			
3/2/2021		4.84	6.01

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/3/2021	5.23		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		4.82	6
9/10/2021			
9/13/2021	5.06		
1/18/2022			
1/20/2022			5.93
1/24/2022	5.15		
1/25/2022		4.79	
1/26/2022			
1/28/2022			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									4.31
9/1/2016							5.11	4.7	
9/2/2016	4.7	5.7	5.74						
9/7/2016						5.35			
12/6/2016									4.43
12/8/2016		5.64	6.03			5.41	5.71	4.58	
3/28/2017					6.01				4.44
3/29/2017	4.7		5.77						
3/30/2017		5.79		6.03				4.19	
3/31/2017						5.36	4.58		
5/12/2017				5.97	5.87				
6/15/2017				6	6.03				
7/11/2017					6.04				4.46
7/12/2017	4.67	5.71		5.97					
7/13/2017			5.71			5.27	4.95	4.3	
10/24/2017					5.99				
10/25/2017	4.71	5.68	5.77			5.38			4.54
10/26/2017				5.9			4.41	4.39	
11/15/2017					5.92				
2/27/2018					6.03				4.87
2/28/2018	4.51	5.71	5.77			5.37			
3/1/2018				6.19			3.93		
3/2/2018								4.14	
7/10/2018					5.96				4.77
7/11/2018	4.68					5.19			
7/12/2018			5.62	5.97			4.33	4.36	
11/6/2018					5.97				4.89
11/7/2018	4.64	5.61	5.71			5.18	4.48	4.23	
11/8/2018				5.96					
3/12/2019					5.85				4.42
3/13/2019	4.65	5.62							
3/14/2019			5.67	5.99		5.1	3.88	4.12	
8/27/2019					5.84				4.83
8/28/2019						5.3			
8/29/2019	4.64	5.61	5.66	5.96			4.35	4.28	
10/15/2019					5.98				
10/16/2019									4.78
10/17/2019	4.64	5.57				5.2	4.6		
10/18/2019			5.61	5.99				4.22	
3/2/2020					5.88				4.8
3/3/2020		5.65	5.74						
3/4/2020	4.22			5.68		5.18	3.86	4.27	
8/3/2020									
8/11/2020									
8/12/2020					5.93		4.43		4.84
8/13/2020	4.36			6		5.34		4.26	
8/14/2020		5.66	5.76						
8/17/2020									
9/22/2020	4.66				5.88	5.76			4.83
9/23/2020							4.4	4.64	
9/24/2020		5.64	5.69	6.19					

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	5.33	4.08	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	5.39	4.15	
12/8/2016			
3/28/2017		4.16	
3/29/2017	5.23		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	5.33	4.23	
7/12/2017			
7/13/2017			
10/24/2017	5.05	4.06	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	5.08	4.04	
2/28/2018			
3/1/2018			
3/2/2018			
7/10/2018	5.11		
7/11/2018		4.03	
7/12/2018			
11/6/2018	5.13	4	
11/7/2018			
11/8/2018			
3/12/2019	5.07	3.98	
3/13/2019			
3/14/2019			
8/27/2019		4.02	
8/28/2019	5.11		
8/29/2019			
10/15/2019			
10/16/2019	5.33		
10/17/2019		4.02	
10/18/2019			
3/2/2020			
3/3/2020	5.12	4.07	
3/4/2020			
8/3/2020			4.93
8/11/2020		4	
8/12/2020	5.36		
8/13/2020			
8/14/2020			
8/17/2020			5.02
9/22/2020		4	
9/23/2020	5.21		
9/24/2020			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/25/2020			5.53
3/1/2021			
3/2/2021	6.6	3.99	
3/3/2021			
3/8/2021			5.32
9/9/2021			
9/10/2021		3.98	
9/13/2021	5.05		5.27
1/20/2022			
1/21/2022			5.23
1/24/2022			
1/25/2022	5.16		
1/26/2022		3.68	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			6.44		5.91	5.94		6.64	
12/17/2020		5.39		5.82					
1/11/2021		5.55							
1/12/2021	5.26		6.24					6.71	
1/13/2021							6.42		
3/3/2021									
3/4/2021		5.43	6.27	5.85	5.97	5.88			
3/5/2021	6.52							6.69	
3/8/2021							6.42		
3/12/2021									
4/14/2021									4.8
4/15/2021									
9/9/2021									
9/10/2021		5.36					6.86		
9/13/2021	6.07			5.91	5.88				
9/14/2021			8.58			5.81		7.29	5.38
1/20/2022							6.43		5.77
1/24/2022			6.48		6.05	5.99		7.11	
1/25/2022				5.84					
1/26/2022	5.87								
1/27/2022		5.33							

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/14/2021			
4/15/2021	5.46		
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021	5.3		
1/20/2022	5.28		6.32
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		4.7	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	5.39								
1/30/2019		6.83							
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
8/13/2020			6.14						
8/14/2020					5.59				
8/17/2020				5.48		5.76			
8/19/2020								4.78	
9/24/2020			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				
1/20/2022	5.46		6.48						
1/21/2022					5.56				
1/25/2022		6.35		5.07					
1/26/2022							4.5	4.74	6.52
1/27/2022						5.5			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	6.3
9/13/2021	
9/14/2021	
9/15/2021	5.4
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	6.52
1/27/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0366	<0.005			0.0016 (J)	
9/1/2016						0.0017 (J)			
9/6/2016							0.0011 (J)		<0.005
9/7/2016									
12/6/2016				0.0026 (J)	<0.005			<0.005	
12/7/2016						<0.005	0.0015 (J)		<0.005
12/8/2016									
3/28/2017	<0.005	<0.005	<0.005						
3/29/2017				0.0286	<0.005	0.0017 (J)		<0.005	
3/30/2017							0.0015 (J)		<0.005
5/11/2017	<0.005								
5/12/2017			<0.005						
5/15/2017		<0.005							
6/15/2017	<0.005	<0.005							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			0.0257	<0.005	0.0019 (J)	<0.005	<0.005	<0.005
8/8/2017		<0.005							
10/24/2017	<0.005	<0.005	<0.005	0.0281	<0.005				
10/25/2017						0.0024 (J)		<0.005	<0.005
11/15/2017							0.0019 (J)		
2/27/2018		<0.005	<0.005	0.0667	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		0.002 (J)	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	0.049	<0.005				
11/7/2018	<0.005					<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)
8/27/2019		<0.005	<0.005	0.015	<0.005	<0.005		<0.005	
8/28/2019	<0.005						0.0039 (J)		<0.005
9/17/2019						0.0014 (J)			
10/15/2019		<0.005	<0.005	0.071	<0.005	0.0019 (J)			
10/16/2019	<0.005						0.0031 (J)	0.0017 (J)	
10/17/2019									<0.005
10/18/2019									
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.021			0.0062 (J)	0.0014 (J)	<0.005
3/4/2020									
3/9/2020	<0.005								
8/11/2020		<0.005	<0.005	0.023	<0.005	0.0019 (J)		<0.005	
8/12/2020							0.0038 (J)		
8/13/2020	<0.005								0.0018 (J)
8/14/2020									
9/22/2020	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	
9/23/2020							0.0053 (J)		<0.005
9/24/2020				0.074					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		0.006	<0.005	<0.005
3/3/2021						<0.005			
3/4/2021				0.05					
3/12/2021	<0.005								
9/8/2021			<0.005						

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Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0093 (J)	
9/6/2016			
9/7/2016	0.007 (J)		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	0.0087 (J)		
3/28/2017			
3/29/2017		0.0071 (J)	
3/30/2017	0.0099 (J)		<0.005
5/11/2017			<0.005
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	0.0072 (J)	0.0065 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0078 (J)	0.0087 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	<0.005	0.0114	
3/8/2018			
7/11/2018	0.007 (J)	0.0036 (J)	0.0045 (J)
7/12/2018			
11/6/2018			<0.01 (J)
11/7/2018	<0.005	<0.01 (J)	
8/27/2019	0.0073 (J)		0.0069 (J)
8/28/2019		0.004 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.006 (J)	
10/17/2019			0.0051 (J)
10/18/2019	0.0093 (J)		
3/2/2020			
3/3/2020		0.0066 (J)	0.0047 (J)
3/4/2020	0.0074 (J)		
3/9/2020			
8/11/2020		0.0096 (J)	0.0053 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0084 (J)		
9/22/2020		0.0052 (J)	
9/23/2020			0.0046 (J)
9/24/2020	0.015		
3/1/2021			
3/2/2021		0.0091	0.0037 (J)
3/3/2021	0.0072		
3/4/2021			
3/12/2021			
9/8/2021			

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Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0083	0.0031 (J)
9/10/2021			
9/13/2021	0.0071		
1/18/2022			
1/20/2022			0.0031 (J)
1/24/2022	0.0064		
1/25/2022		0.0029 (J)	
1/26/2022			
1/28/2022			

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Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.0032 (J)	0.0833	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.005	0.0065 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0954	
3/29/2017	0.0048 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0031 (J)	0.0561	
7/12/2017			
7/13/2017			
10/24/2017	0.0069 (J)	0.0653	
10/25/2017			
10/26/2017			
2/27/2018	<0.005	0.13	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		0.045	
7/12/2018			
11/6/2018	<0.01 (J)	0.12	
11/7/2018			
11/8/2018			
8/27/2019		0.067	
8/28/2019	<0.005		
8/29/2019			
10/15/2019			
10/16/2019	0.0016 (J)		
10/17/2019		0.19	
10/18/2019			
3/2/2020			
3/3/2020	0.0018 (J)	0.046	
3/4/2020			
8/11/2020		0.11	
8/12/2020	<0.005		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		0.23	
9/23/2020	0.0028 (J)		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.07	
3/3/2021			
3/8/2021			0.0019 (J)

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Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.057	
9/13/2021	<0.005		<0.005
1/20/2022			
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.005		
1/26/2022		0.025	

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Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		0.0016 (J)					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)			
3/5/2021	0.0031 (J)							0.0022 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.006
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	0.0041 (J)
1/20/2022							<0.005		0.0022 (J)
1/24/2022			<0.005		<0.005	<0.005		<0.005	
1/25/2022				<0.005					
1/26/2022	<0.005								
1/27/2022		<0.005							

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.011	
9/24/2020			<0.005
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.0016 (J)		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021	0.0022 (J)		
1/20/2022	0.0021 (J)		<0.005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0066	

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Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
10/24/2019			<0.005						
8/13/2020			<0.005						
8/14/2020					0.015				
8/17/2020				<0.005		0.0017 (J)			
8/19/2020								0.018	
9/24/2020			<0.005						
9/25/2020					0.019	0.0033 (J)			
9/28/2020				0.0021 (J)				0.036	
3/4/2021			0.0017 (J)		0.024				
3/5/2021						0.0033 (J)			
3/9/2021								0.0099 (J)	
9/13/2021						0.0021 (J)			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				
1/20/2022	<0.005		<0.005						
1/21/2022					0.027				
1/25/2022		<0.005		0.002 (J)					
1/26/2022							0.0039 (J)	0.0063	0.0015 (J)
1/27/2022						<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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2/19/2018	
1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0033 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.005
1/27/2022	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				400	200			44	
9/1/2016						390			
9/6/2016							170		180
9/7/2016									
12/6/2016				190	190			45	
12/7/2016						350	160		180
12/8/2016									
3/28/2017	49	2.7	17						
3/29/2017				360	200	150		81 (O)	
3/30/2017							180		210
5/11/2017	21								
5/12/2017			17						
5/15/2017		1							
6/15/2017	16	0.86 (J)							
6/16/2017			11						
7/11/2017		1.4	11						
7/12/2017	10			390	210	350	170	44	170
8/8/2017		1.5							
10/24/2017	15	1.4	9.6	410	210				
10/25/2017						400		42	180
11/15/2017	3.8		7.8	390			180		
2/27/2018		0.54 (J)	7.4	335	220	356		41	
2/28/2018							43.5		168
3/8/2018	9.7								
7/11/2018						344		40.6	154
7/12/2018	8								
11/6/2018		<1 (J)	7.3	356	302				
11/7/2018	12.8					298	162	41.3	168
3/12/2019		0.35 (J)	7	297	275	284			
3/13/2019	23.7						179	41.2	
3/14/2019									195
10/15/2019		0.16 (J)	7.4	263	273	270			
10/16/2019	15.1						167	42.1	
10/17/2019									146
10/18/2019									
3/2/2020		<1	8.5		264	181			
3/3/2020				213			157	45.5	148
3/4/2020									
3/9/2020	9.5								
9/22/2020	13.5	<1	6.5		267	183		40.2	
9/23/2020							134		146
9/24/2020				204					
3/1/2021		<1	5.2						
3/2/2021					250		131	42.6	148
3/3/2021						203			
3/4/2021				240					
3/12/2021	8.8								
9/8/2021			6.1						
9/9/2021	11.9	<1			247	126	127	42.3	139
9/10/2021				271					
9/13/2021									
1/18/2022		<1	6.3						

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		240	
9/6/2016			
9/7/2016	230		
12/6/2016			
12/7/2016		250	
12/8/2016	240		
3/28/2017			
3/29/2017		250	
3/30/2017	260		360
5/11/2017			340
5/12/2017			
5/15/2017			
6/15/2017			300
6/16/2017			
7/11/2017			330
7/12/2017	230	250	
8/8/2017			
10/24/2017			260
10/25/2017	240	270	
11/15/2017			
2/27/2018			189
2/28/2018	203	244	
3/8/2018			
7/11/2018	234	249	162
7/12/2018			
11/6/2018			190
11/7/2018	248	266	
3/12/2019			159
3/13/2019	268	299	
3/14/2019			
10/15/2019			
10/16/2019		323	
10/17/2019			134
10/18/2019	222		
3/2/2020			
3/3/2020		292	118
3/4/2020	222		
3/9/2020			
9/22/2020		310	
9/23/2020			122
9/24/2020	259		
3/1/2021			
3/2/2021		324	112
3/3/2021	237		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		315	110
9/10/2021			
9/13/2021	222		
1/18/2022			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			101
1/24/2022	225		
1/25/2022		288	
1/26/2022			
1/28/2022			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									400
9/1/2016							470	540	
9/2/2016	580	300	140						
9/7/2016						370			
12/6/2016									460
12/7/2016	650								
12/8/2016		280	260			350	400	540	
3/28/2017					680				380
3/29/2017	640		290						
3/30/2017		270		220				550	
3/31/2017						380	350		
5/12/2017				220	680				
6/15/2017				200	730				
7/11/2017					740				440
7/12/2017	630	290		220					
7/13/2017			300			370	270	500	
10/24/2017					930				
10/25/2017	610	290	290			370			510
10/26/2017				220			290	510	
11/15/2017					820				
2/27/2018					811				453
2/28/2018	584	267	278			350			
3/1/2018				209			245		
3/2/2018								456	
7/11/2018	501	277				366			
7/12/2018			197	202			240	409	
11/6/2018					902				556
11/7/2018	554	286	320			439	143	432	
11/8/2018				292					
3/12/2019					987				484
3/13/2019	539	312							
3/14/2019			297	266		404	238	450	
10/15/2019					888				
10/16/2019									493
10/17/2019	426	255				321	179		
10/18/2019			254	203				336	
3/2/2020					840				455
3/3/2020		269	242						
3/4/2020	434			204		329	176	368	
9/22/2020	408				800	320			423
9/23/2020							111	313	
9/24/2020		269	262	215					
9/25/2020									
3/1/2021					840				
3/2/2021	458								412
3/3/2021		264	252	221		329	143	312	
3/8/2021									
9/9/2021		238		217					
9/10/2021	399		234		823		123	272	449
9/13/2021						285			
1/20/2022		223	221	211		281			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	450	300	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	480	320	
12/7/2016			
12/8/2016			
3/28/2017		300	
3/29/2017	660		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	440	320	
7/12/2017			
7/13/2017			
10/24/2017	430	430	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	340	327	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		344	
7/12/2018			
11/6/2018	307	438	
11/7/2018			
11/8/2018			
3/12/2019	295	362	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	235		
10/17/2019		331	
10/18/2019			
3/2/2020			
3/3/2020	195	247	
3/4/2020			
9/22/2020		282	
9/23/2020	178		
9/24/2020			
9/25/2020			385
3/1/2021			
3/2/2021	152	266	
3/3/2021			
3/8/2021			388
9/9/2021			
9/10/2021		264	
9/13/2021	145		351
1/20/2022			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
1/21/2022			344
1/24/2022			
1/25/2022	134		
1/26/2022		245	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			415		273	277		197	
12/17/2020		249		179					
1/11/2021		249							
1/12/2021	207		471					222	
1/13/2021							99.8		
3/3/2021									
3/4/2021		256	474	170	309	309			
3/5/2021	236							270	
3/8/2021							102		
3/12/2021									
4/14/2021									256
4/15/2021									
9/9/2021									
9/10/2021		271					93.2		
9/13/2021	174			147	275				
9/14/2021			456			299		243	278
1/20/2022							93.1		293
1/24/2022			423		276	277		238	
1/25/2022				132					
1/26/2022	144								
1/27/2022		231							

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/14/2021			
4/15/2021	556		
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021	552		
1/20/2022	475		50.3
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		185	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	87.9								
1/30/2019		292							
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				
1/20/2022	49.4		<1						
1/21/2022					106				
1/25/2022		240		363					
1/26/2022							305	477	531
1/27/2022						371			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	150
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	325
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	18.4
1/27/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0004 (J)	<0.001			<0.001	
9/1/2016						<0.001			
9/6/2016							<0.001		<0.001
9/7/2016									
12/6/2016				0.0004 (J)	<0.001			<0.001	
12/7/2016						<0.001	<0.001		<0.001
12/8/2016									
3/28/2017	<0.001	<0.001	6E-05 (J)						
3/29/2017				0.0006 (J)	<0.001	8E-05 (J)		<0.001	
3/30/2017							<0.001		<0.001
5/11/2017	<0.001								
5/12/2017			<0.001						
5/15/2017		<0.001							
6/15/2017	<0.001	<0.001							
6/16/2017			<0.001						
7/11/2017		<0.001	<0.001						
7/12/2017	<0.001			0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001
8/8/2017		<0.001							
10/24/2017	<0.001	<0.001	<0.001	0.0004 (J)	<0.001				
10/25/2017						9E-05 (J)		<0.001	<0.001
11/15/2017							<0.001		
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/28/2018							<0.001		<0.001
3/8/2018	<0.001								
7/11/2018						<0.001		<0.001	<0.001
7/12/2018	<0.001								
11/6/2018		<0.001	<0.001	<0.001 (J)	<0.001				
11/7/2018	<0.001					<0.001	<0.001	<0.001	<0.001 (J)
8/27/2019		<0.001	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001	
8/28/2019	<0.001						<0.001		<0.001
9/17/2019						9.7E-05 (J)			
10/15/2019		<0.001	<0.001	0.00039 (J)	<0.001	9.1E-05 (J)			
10/16/2019	<0.001						<0.001	<0.001	
10/17/2019									<0.001
10/18/2019									
3/2/2020		7.8E-05 (J)	<0.001		<0.001	0.00013 (J)			
3/3/2020				0.00042 (J)			<0.001	<0.001	<0.001
3/4/2020									
3/9/2020	<0.001								
8/11/2020		<0.001	<0.001	0.00037 (J)	<0.001	<0.001		<0.001	
8/12/2020							<0.001		
8/13/2020	<0.001								<0.001
8/14/2020									
9/22/2020	<0.001	<0.001	<0.001		<0.001	<0.001		<0.001	
9/23/2020							<0.001		<0.001
9/24/2020				0.00034 (J)					
3/1/2021		<0.001	<0.001						
3/2/2021					<0.001		<0.001	<0.001	<0.001
3/3/2021						<0.001			
3/4/2021				0.00042 (J)					
3/12/2021	<0.001								
9/8/2021			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0005 (J)	
9/6/2016			
9/7/2016	<0.001		
12/6/2016			
12/7/2016		0.0005 (J)	
12/8/2016	<0.001		
3/28/2017			
3/29/2017		0.0004 (J)	
3/30/2017	0.0002 (J)		<0.001
5/11/2017			<0.001
5/12/2017			
5/15/2017			
6/15/2017			<0.001
6/16/2017			
7/11/2017			<0.001
7/12/2017	0.0002 (J)	0.0005 (J)	
8/8/2017			
10/24/2017			<0.001
10/25/2017	0.0002 (J)	0.0004 (J)	
11/15/2017			
2/27/2018			<0.001
2/28/2018	0.00015 (J)	0.00049 (J)	
3/8/2018			
7/11/2018	0.00017 (J)	0.0005 (J)	<0.001
7/12/2018			
11/6/2018			<0.001
11/7/2018	<0.001	<0.001 (J)	
8/27/2019	0.00018 (J)		<0.001
8/28/2019		0.00053 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00053 (J)	
10/17/2019			<0.001
10/18/2019	0.00014 (J)		
3/2/2020			
3/3/2020		0.0006 (J)	<0.001
3/4/2020	0.00019 (J)		
3/9/2020			
8/11/2020		0.00059 (J)	<0.001
8/12/2020			
8/13/2020			
8/14/2020	0.00019 (J)		
9/22/2020		0.0005 (J)	
9/23/2020			<0.001
9/24/2020	0.00018 (J)		
3/1/2021			
3/2/2021		0.00056 (J)	<0.001
3/3/2021	0.00017 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00056 (J)	<0.001
9/10/2021			
9/13/2021	<0.001		
1/18/2022			
1/20/2022			<0.001
1/24/2022	<0.001		
1/25/2022		0.00057 (J)	
1/26/2022			
1/28/2022			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	<0.001	<0.001	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	<0.001	0.0006 (J)	
12/7/2016			
12/8/2016			
3/28/2017		0.0007 (J)	
3/29/2017	0.0002 (J)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.0001 (J)	0.0007 (J)	
7/12/2017			
7/13/2017			
10/24/2017	0.0003 (J)	0.0006 (J)	
10/25/2017			
10/26/2017			
2/27/2018	0.00033 (J)	0.00038 (J)	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		<0.001	
7/12/2018			
11/6/2018	<0.001 (J)	<0.001	
11/7/2018			
11/8/2018			
8/27/2019		0.00053 (J)	
8/28/2019	0.00022 (J)		
8/29/2019			
10/15/2019			
10/16/2019	0.00025 (J)		
10/17/2019		0.00076 (J)	
10/18/2019			
3/2/2020			
3/3/2020	0.00023 (J)	0.00044 (J)	
3/4/2020			
8/11/2020		<0.001	
8/12/2020	0.00023 (J)		
8/13/2020			
8/14/2020			
8/17/2020			<0.001
9/22/2020		0.00043 (J)	
9/23/2020	0.0002 (J)		
9/24/2020			
9/25/2020			<0.001
3/1/2021			
3/2/2021	0.00019 (J)	<0.001	
3/3/2021			
3/8/2021			<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0004 (J)	
9/13/2021	0.00019 (J)		<0.001
1/20/2022			
1/21/2022			<0.001
1/24/2022			
1/25/2022	0.00019 (J)		
1/26/2022		<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.001		<0.001	<0.001		<0.001	
12/17/2020		<0.001		<0.001					
1/11/2021		<0.001							
1/12/2021	<0.001		<0.001					<0.001	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		<0.001	<0.001	<0.001	<0.001	<0.001			
3/5/2021	<0.001							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									<0.001
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001
1/20/2022							<0.001		<0.001
1/24/2022			<0.001		<0.001	<0.001		<0.001	
1/25/2022				<0.001					
1/26/2022	<0.001								
1/27/2022		<0.001							

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	<0.001		
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021	<0.001		
1/20/2022	<0.001		<0.001
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.00032 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
8/13/2020			<0.001						
8/14/2020					<0.001				
8/17/2020				<0.001		<0.001			
8/19/2020								<0.001	
9/24/2020			<0.001						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
9/11/2019	
9/12/2019	
9/18/2019	
9/23/2019	
10/21/2019	
10/22/2019	
10/24/2019	
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.001
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.001
1/27/2022	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				525	307			106	
9/1/2016						568			
9/6/2016							296		304
9/7/2016									
12/6/2016				595	358			138	
12/7/2016						559	270		287
12/8/2016									
3/28/2017	202	39	90						
3/29/2017				525	300	550		102	
3/30/2017							287		312
5/11/2017	241								
5/12/2017			92						
5/15/2017		88							
6/15/2017	251	65							
6/16/2017			100						
7/11/2017		25	59						
7/12/2017	218			598	382	594	312	118	490 (O)
8/8/2017		53							
10/24/2017	671 (O)	49	117	353	342				
10/25/2017						571		88	290
11/15/2017	241		90	582			325		
2/27/2018		43	79	542	393	582		99	
2/28/2018							84		313
3/8/2018	213								
7/11/2018						593		119	320
7/12/2018	198								
11/6/2018		65	85	512	412				
11/7/2018	200					504	314	113	325
3/12/2019		43	74	436	433	465			
3/13/2019	201						656	280	
3/14/2019									340
10/15/2019		70	89	447	461	472			
10/16/2019	126						296	104	
10/17/2019									319
10/18/2019									
3/2/2020		52	67		458	338			
3/3/2020				382			263	123	323
3/4/2020									
3/9/2020	171								
9/22/2020	142	46	74		481	338		105	
9/23/2020							278		317
9/24/2020				283					
3/1/2021		25	62						
3/2/2021					456		256	105	272
3/3/2021						325			
3/4/2021				430					
3/12/2021	124								
9/8/2021			75						
9/9/2021	131	53			433	275	246	99	292
9/10/2021				474					
9/13/2021									
1/18/2022		54	76						

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		396	
9/6/2016			
9/7/2016	353		
12/6/2016			
12/7/2016		400	
12/8/2016	408		
3/28/2017			
3/29/2017		390	
3/30/2017	338		580
5/11/2017			573
5/12/2017			
5/15/2017			
6/15/2017			626
6/16/2017			
7/11/2017			542
7/12/2017	417	360	
8/8/2017			
10/24/2017			523
10/25/2017	343	423	
11/15/2017			
2/27/2018			401
2/28/2018	364	440	
3/8/2018			
7/11/2018	393	457	334
7/12/2018			
11/6/2018			334
11/7/2018	408	461	
3/12/2019			297
3/13/2019	802	113	
3/14/2019			
10/15/2019			
10/16/2019		500	
10/17/2019			302
10/18/2019	403		
3/2/2020			
3/3/2020		526	277
3/4/2020	414		
3/9/2020			
9/22/2020		513	
9/23/2020			267
9/24/2020	411		
3/1/2021			
3/2/2021		513	241
3/3/2021	384		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		480	260
9/10/2021			
9/13/2021	424		
1/18/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			238
1/24/2022	426		
1/25/2022		694	
1/26/2022			
1/28/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									524
9/1/2016							704	845	
9/2/2016	1100	459	502						
9/7/2016						611			
12/6/2016									690
12/7/2016	930								
12/8/2016		491	464			535	587	777	
3/28/2017					1160				545
3/29/2017	923		462						
3/30/2017		436		380				775	
3/31/2017						661	545		
5/12/2017				438	1230				
6/15/2017				458	1290				
7/11/2017					1160				612
7/12/2017	956	505		461					
7/13/2017			492			641	441	789	
10/24/2017					229				
10/25/2017	854	474	477			626			650
10/26/2017				446			444	753	
11/15/2017					1330				
2/27/2018					1380				698
2/28/2018	888	480	476			616			
3/1/2018				454			435		
3/2/2018								704	
7/11/2018	826	485				638			
7/12/2018			486	432			372	705	
11/6/2018					1480				809
11/7/2018	834	516	511			626	348	678	
11/8/2018				450					
3/12/2019					1490				711
3/13/2019	639	486							
3/14/2019			491	453		630	378	625	
10/15/2019					1520				
10/16/2019									702
10/17/2019	751	498				612	327		
10/18/2019			480	448				593	
3/2/2020					1540				759
3/3/2020		490	452						
3/4/2020	761			408		721	334	630	
9/22/2020	724				1400	547			716
9/23/2020							229	575	
9/24/2020		494	455	456					
9/25/2020									
3/1/2021					1140				
3/2/2021	742								730
3/3/2021		459	442	425		531	228	521	
3/8/2021									
9/9/2021		396		455					
9/10/2021	678		468		1520		274	532	792
9/13/2021						508			
1/20/2022		451	434	453		504			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	693	414	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	727	449	
12/7/2016			
12/8/2016			
3/28/2017		404	
3/29/2017	654		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	679	436	
7/12/2017			
7/13/2017			
10/24/2017	468	599	
10/25/2017			
10/26/2017			
11/15/2017			
2/27/2018	520	482	
2/28/2018			
3/1/2018			
3/2/2018			
7/11/2018		532	
7/12/2018			
11/6/2018	456	554	
11/7/2018			
11/8/2018			
3/12/2019	438	493	
3/13/2019			
3/14/2019			
10/15/2019			
10/16/2019	374		
10/17/2019		550	
10/18/2019			
3/2/2020			
3/3/2020	369	444	
3/4/2020			
9/22/2020		461	
9/23/2020	333		
9/24/2020			
9/25/2020			724
3/1/2021			
3/2/2021	291	449	
3/3/2021			
3/8/2021			660
9/9/2021			
9/10/2021		466	
9/13/2021	306		636
1/20/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
1/21/2022			638
1/24/2022			
1/25/2022	281		
1/26/2022		409	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			862		564	573		490	
12/17/2020		449		340					
1/11/2021		442							
1/12/2021	405		836					500	
1/13/2021							303		
3/3/2021									
3/4/2021		459	818	321	525	569			
3/5/2021	462							634	
3/8/2021							305		
3/12/2021									
4/14/2021									480
4/15/2021									
9/9/2021									
9/10/2021		474					284		
9/13/2021	343			296	567				
9/14/2021			776			576		586	499
1/20/2022							309		553
1/24/2022			806		552	502		566	
1/25/2022				295					
1/26/2022	290								
1/27/2022		459							

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/14/2021			
4/15/2021	982		
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021	882		
1/20/2022	816		187
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		344	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	204								
1/30/2019		601							
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				
1/20/2022	177		129						
1/21/2022					236				
1/25/2022		482		668					
1/26/2022							572	766	930
1/27/2022						654			

Time Series

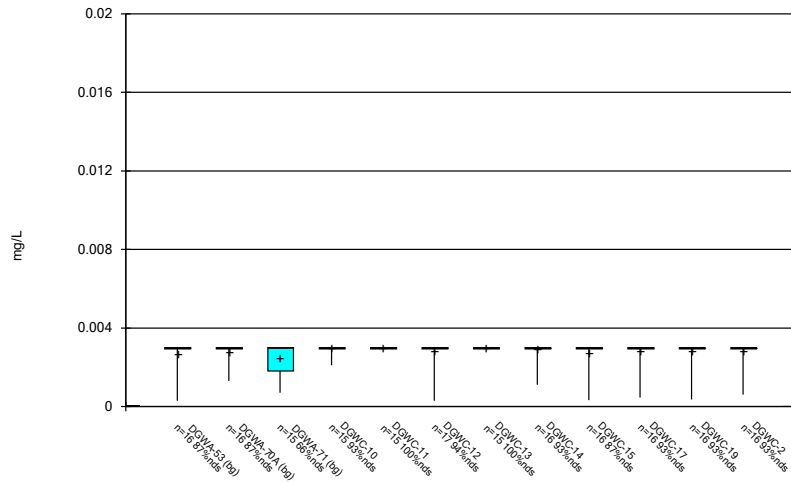
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	524
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	139
1/27/2022	

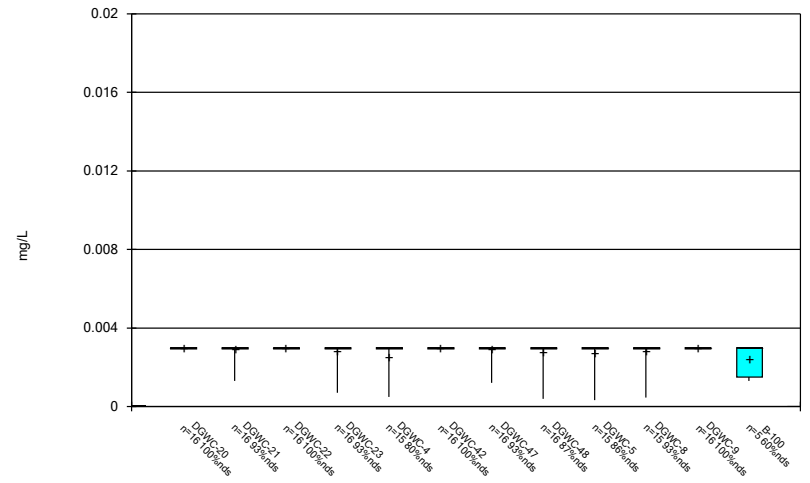
FIGURE B.

Box & Whiskers Plot



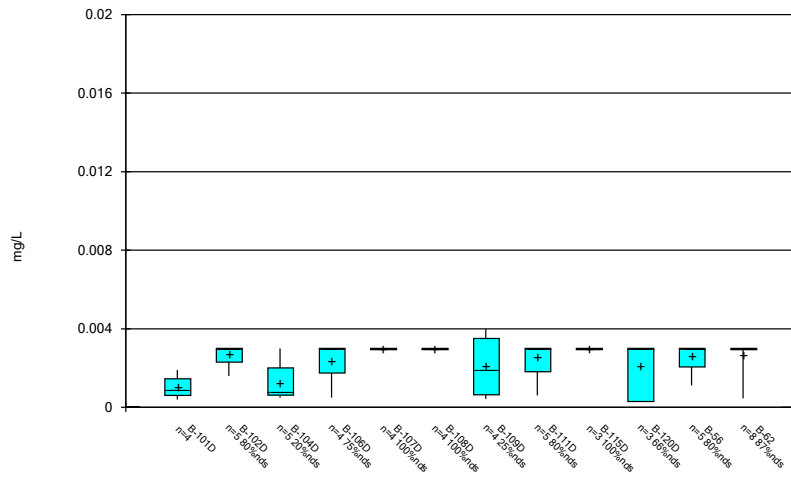
Constituent: Antimony Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



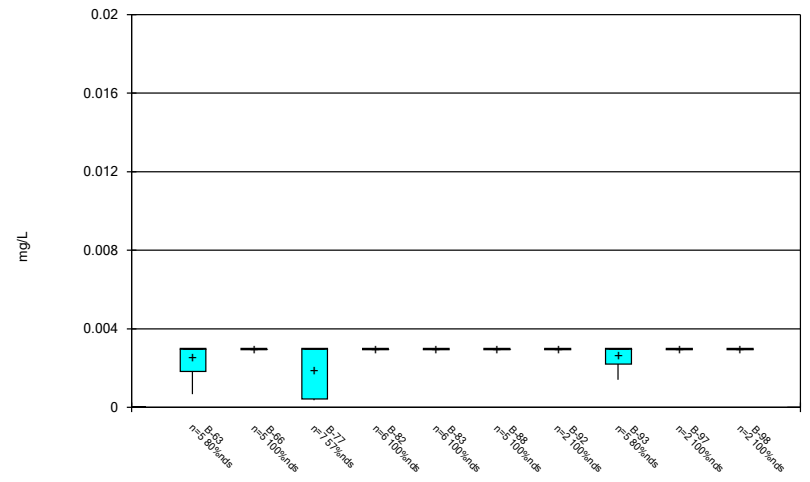
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



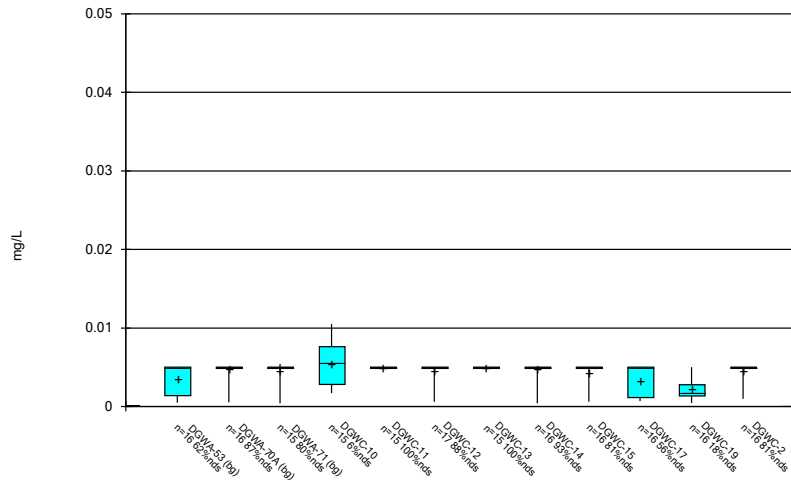
Constituent: Antimony Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



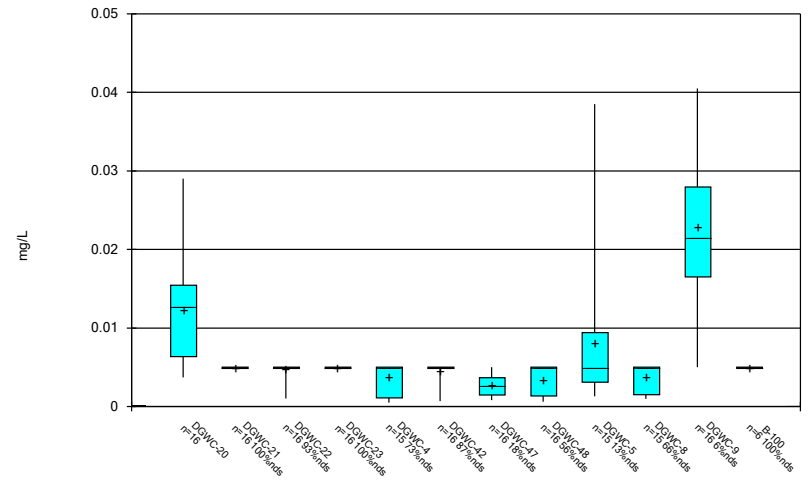
Constituent: Antimony Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



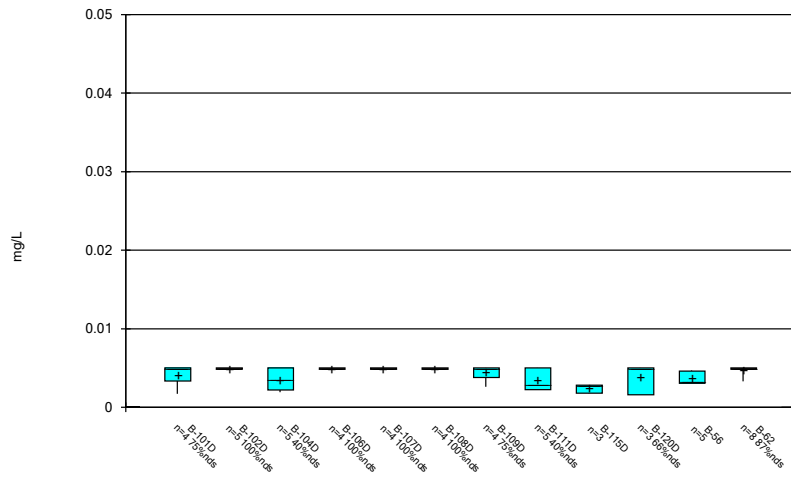
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



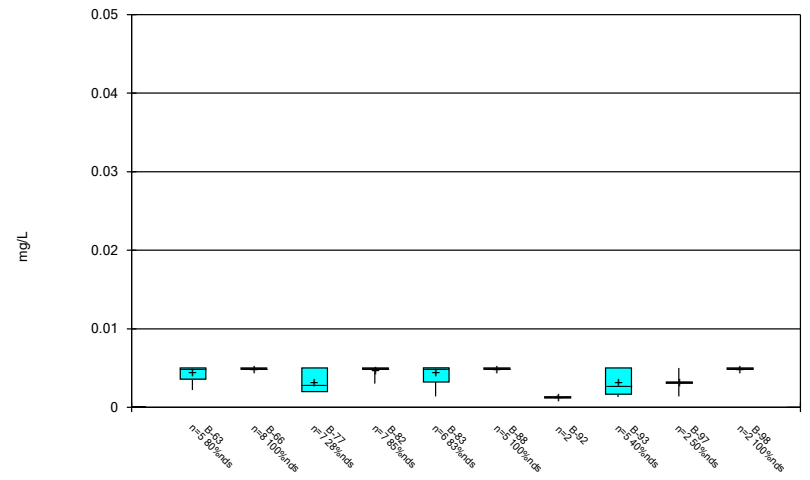
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



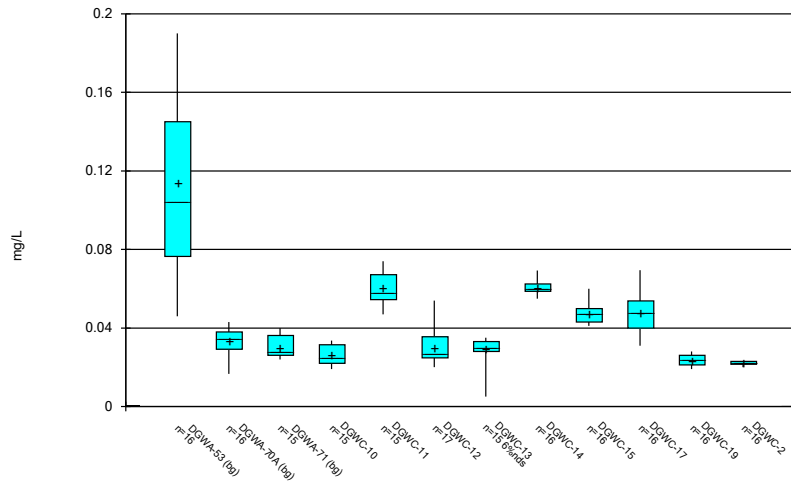
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



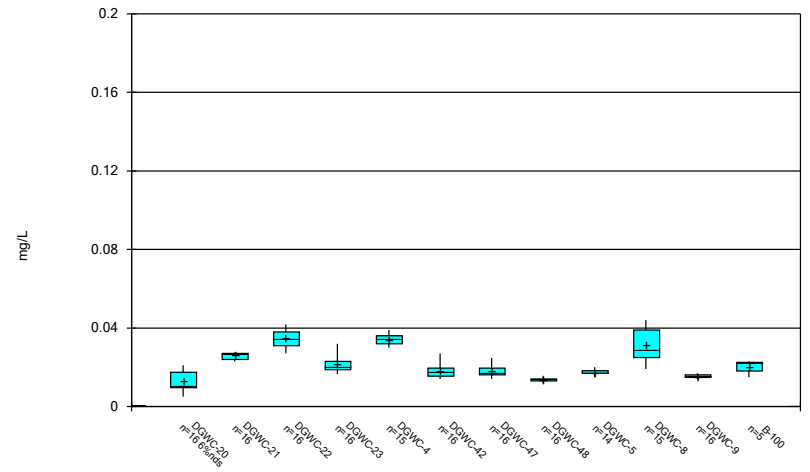
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



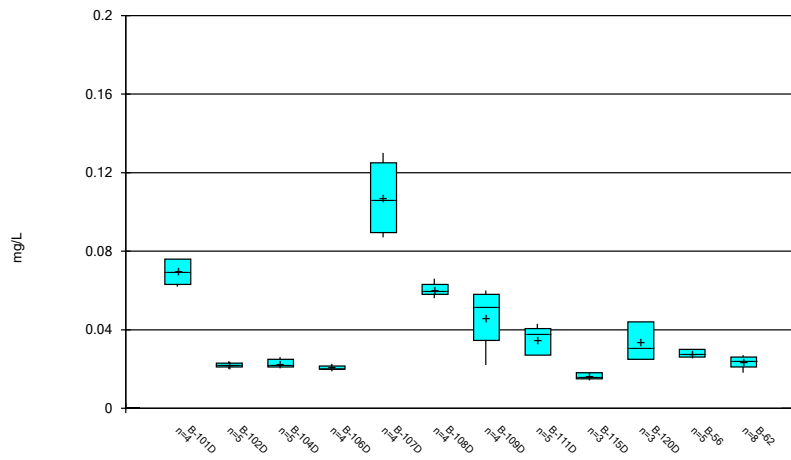
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



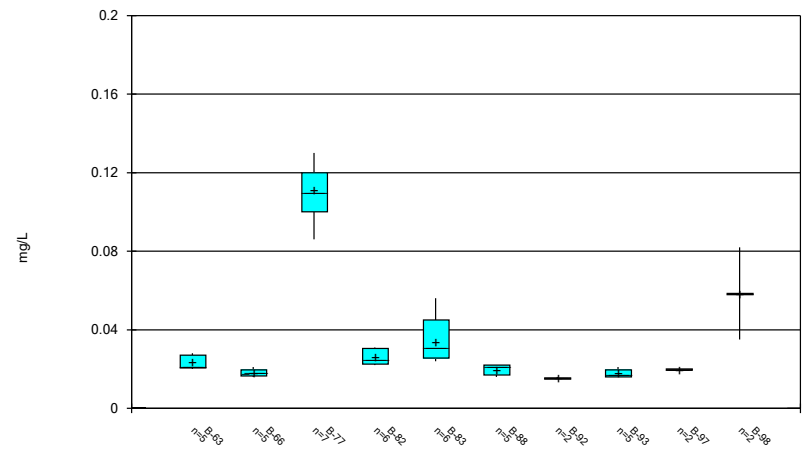
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



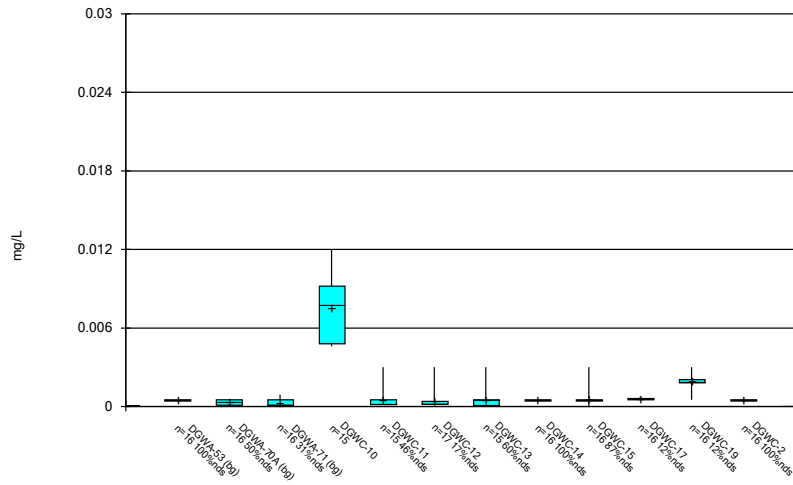
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



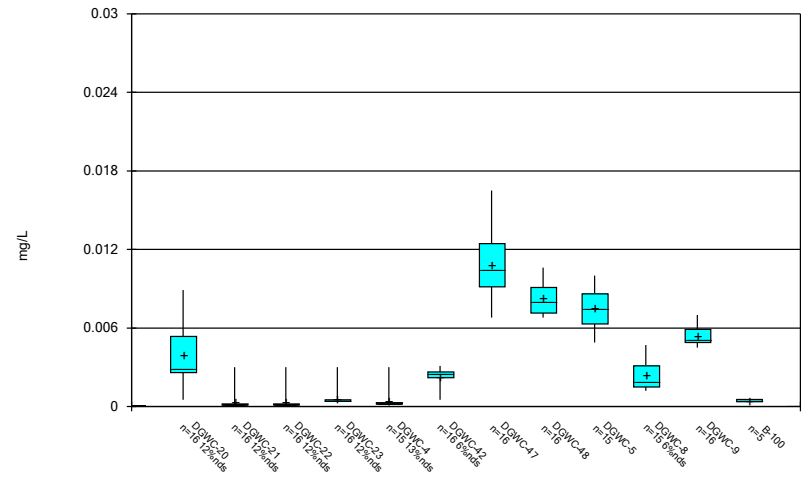
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



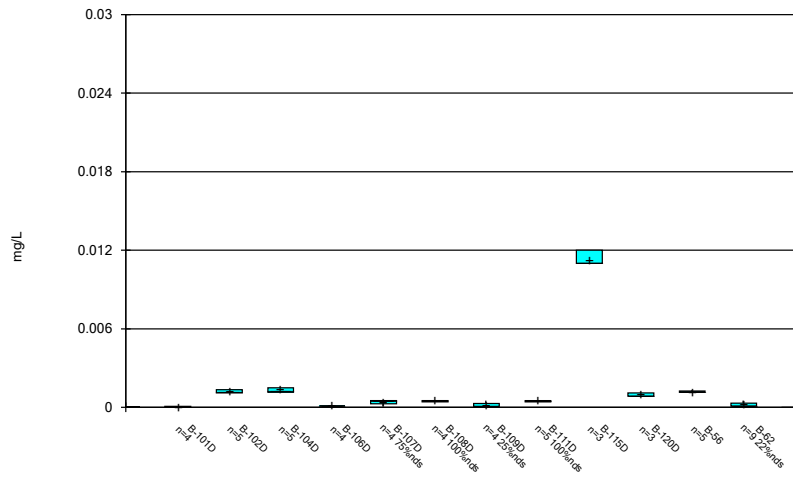
Constituent: Beryllium Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



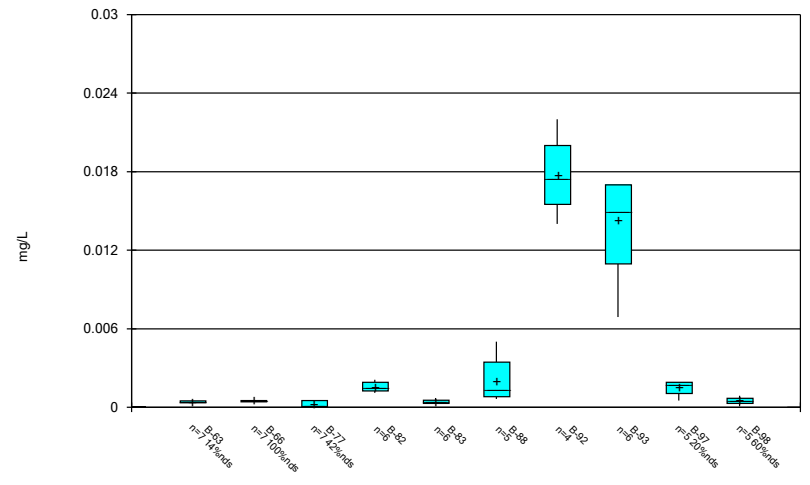
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



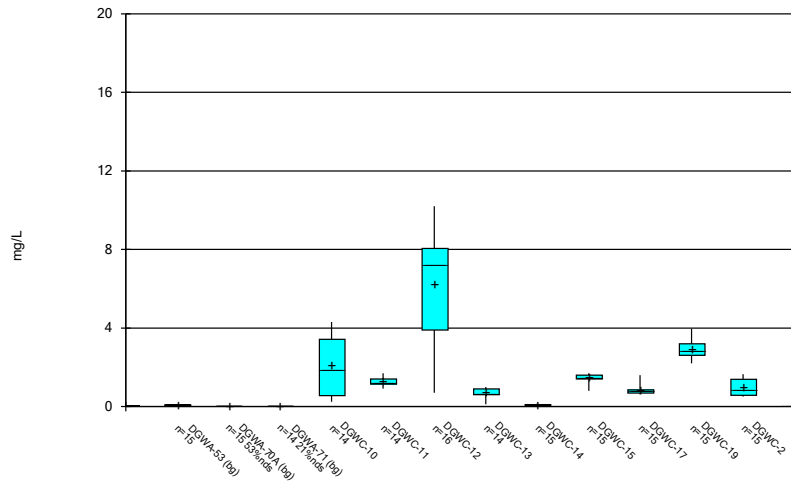
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



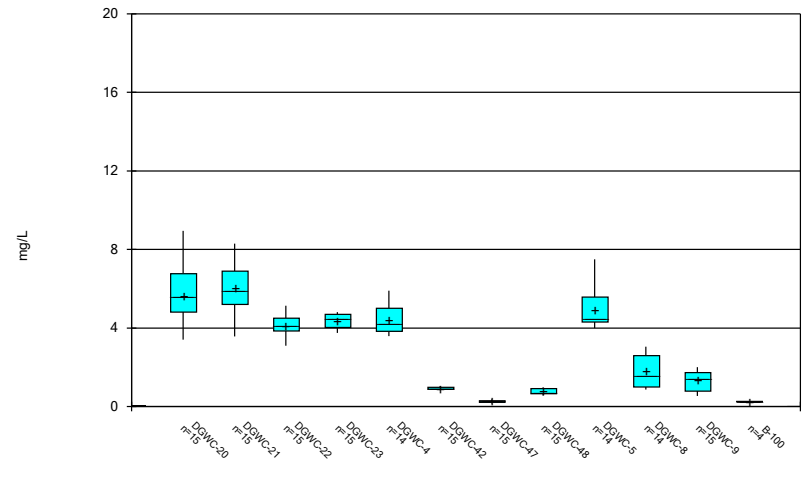
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



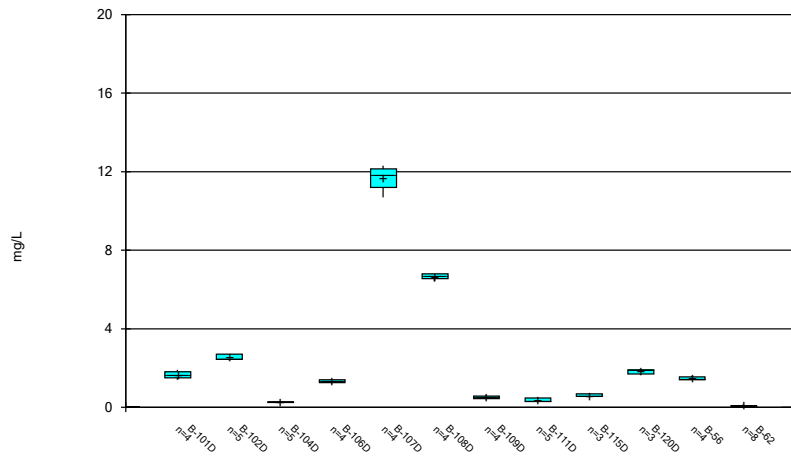
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



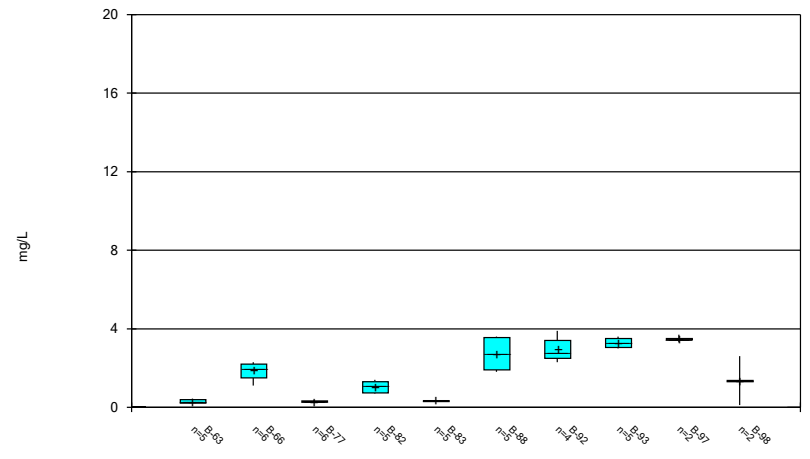
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Box & Whiskers Plot



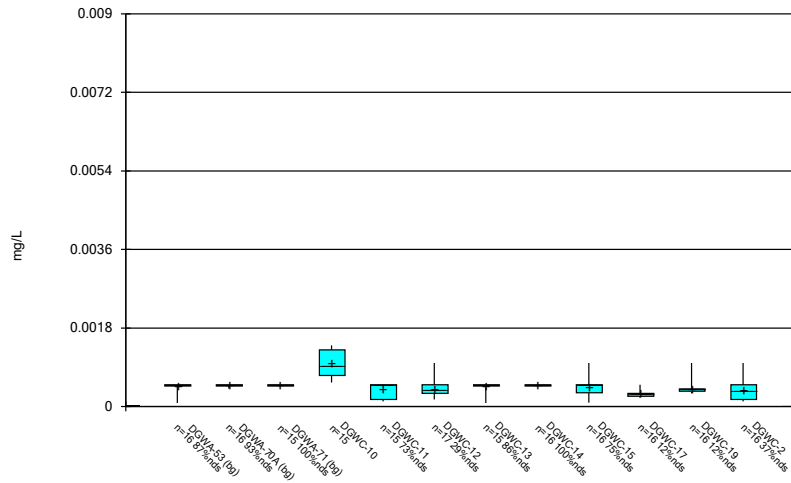
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



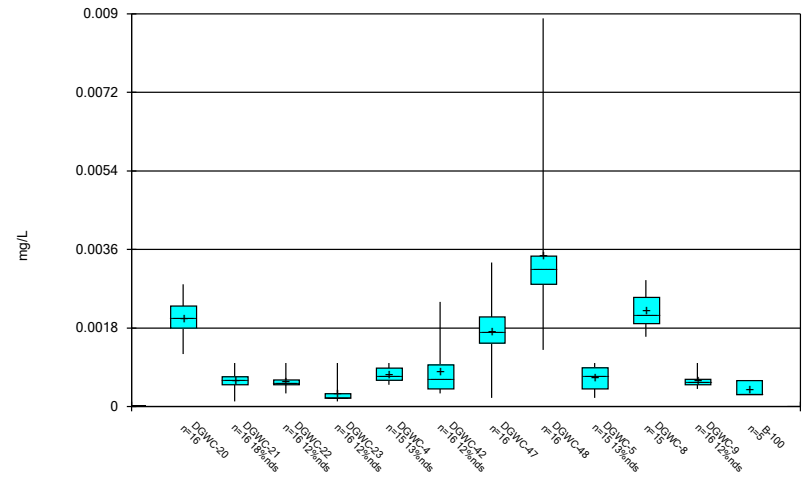
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Box & Whiskers Plot



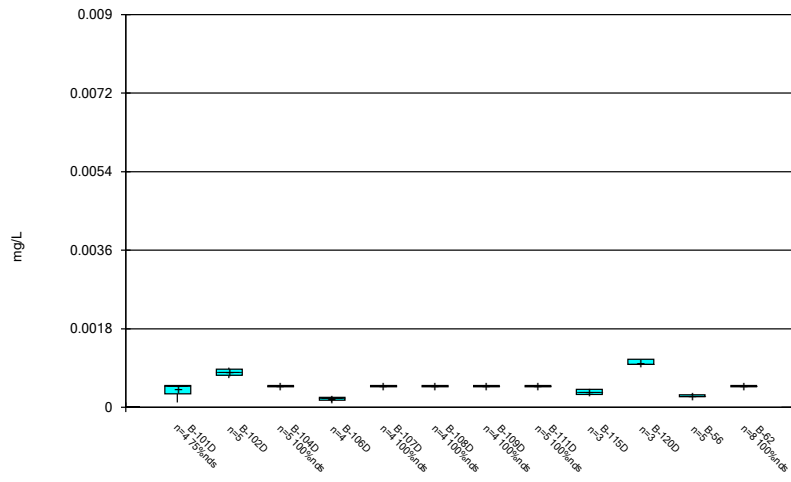
Constituent: Cadmium Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



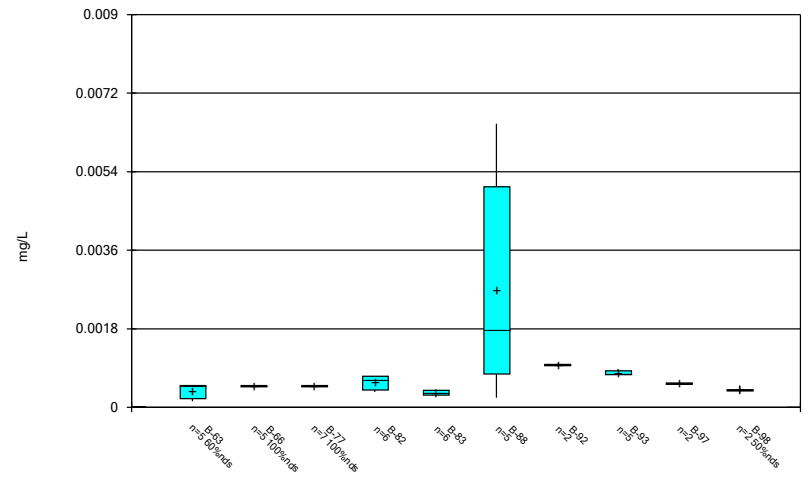
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



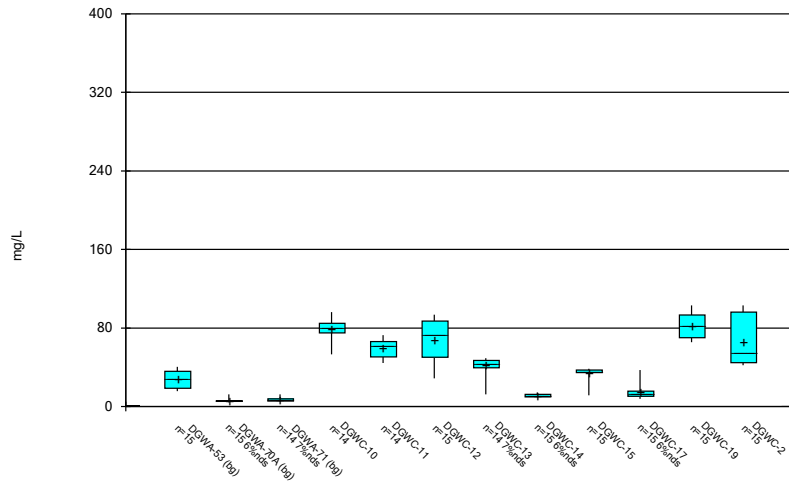
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



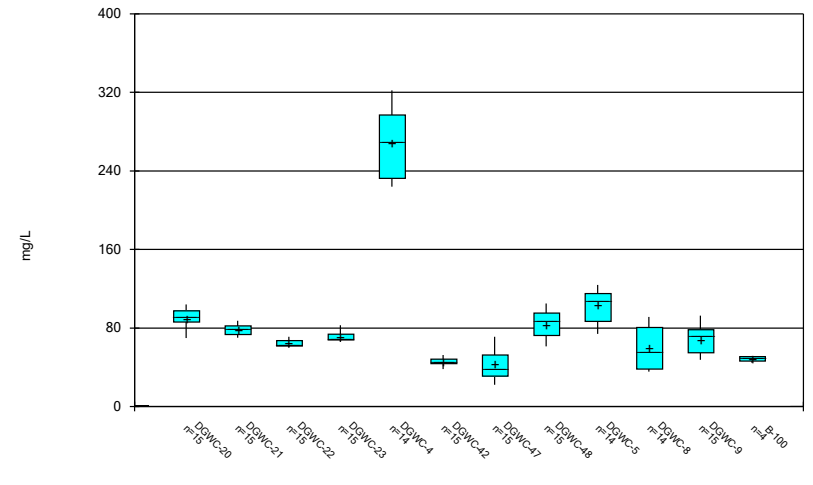
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



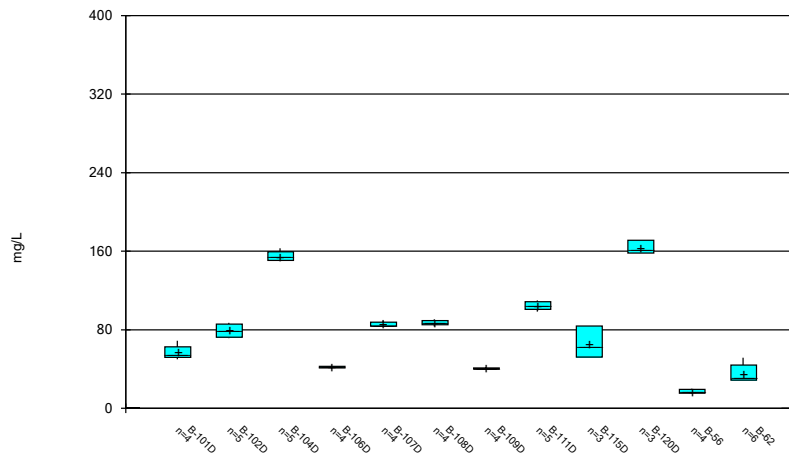
Constituent: Calcium, total Analysis Run 4/13/2022 4:22 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



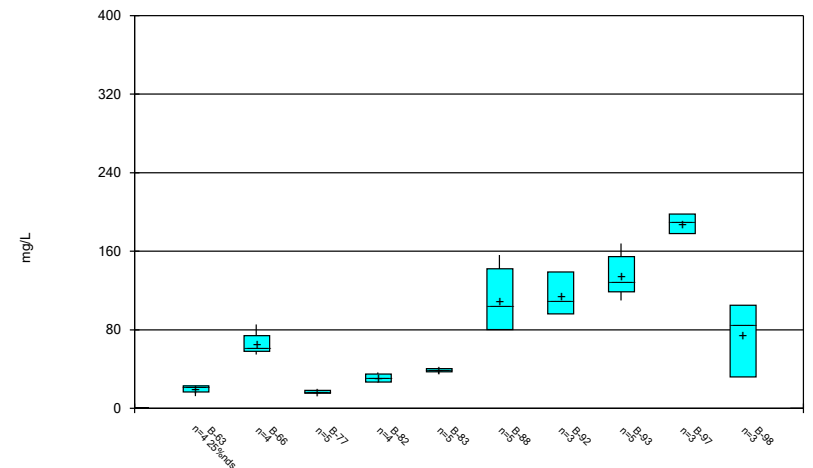
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



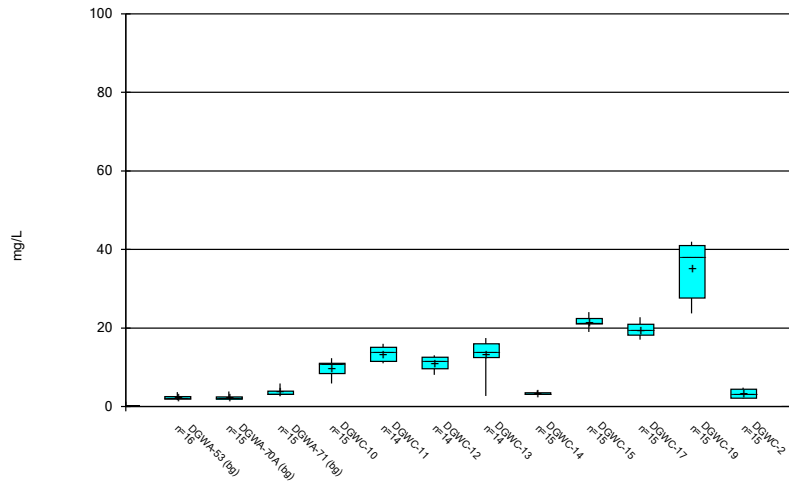
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



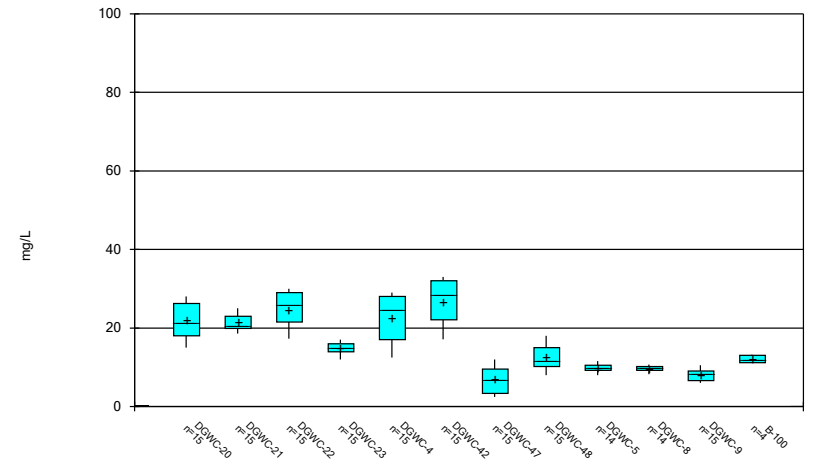
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



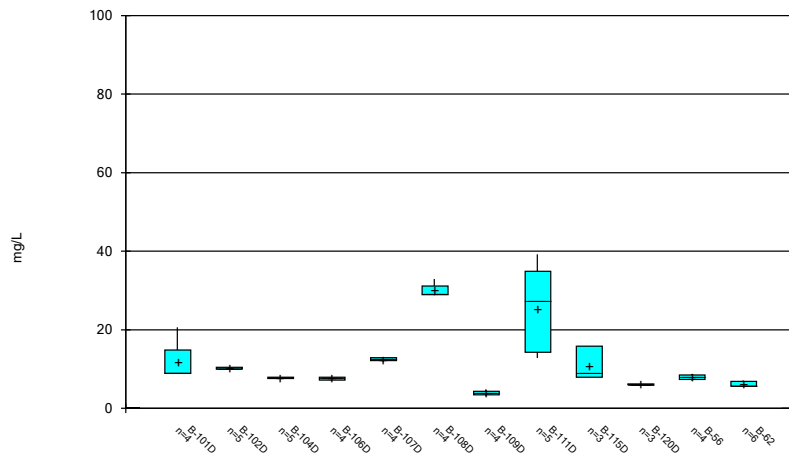
Constituent: Chloride, Total Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



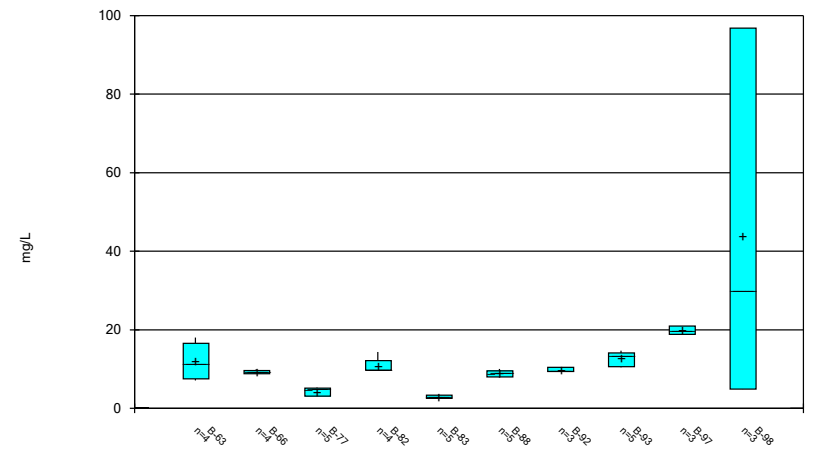
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



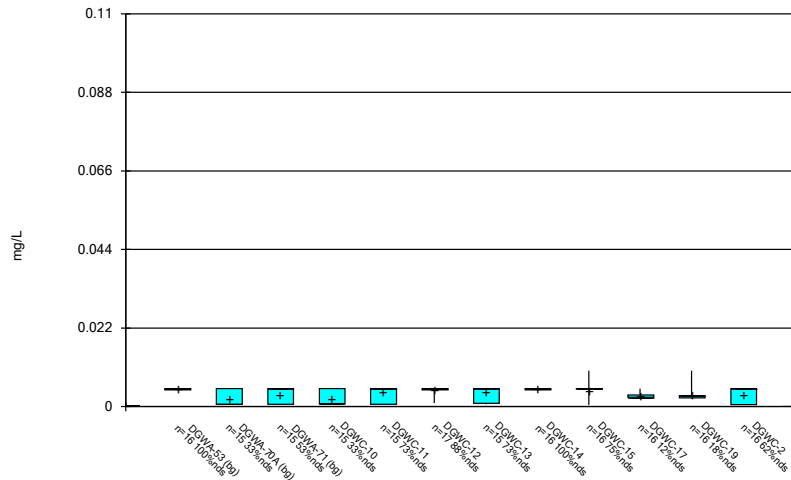
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



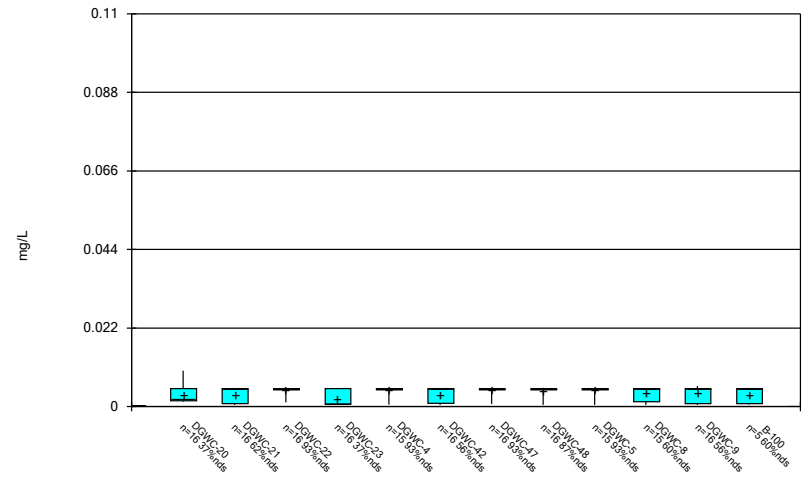
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



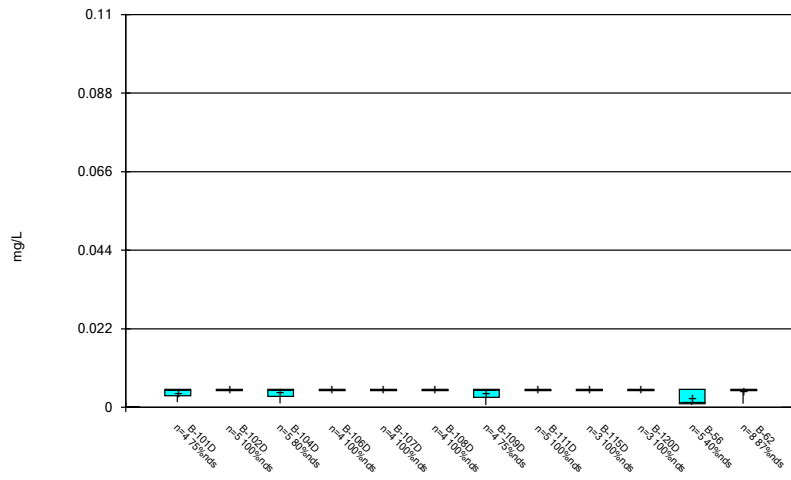
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



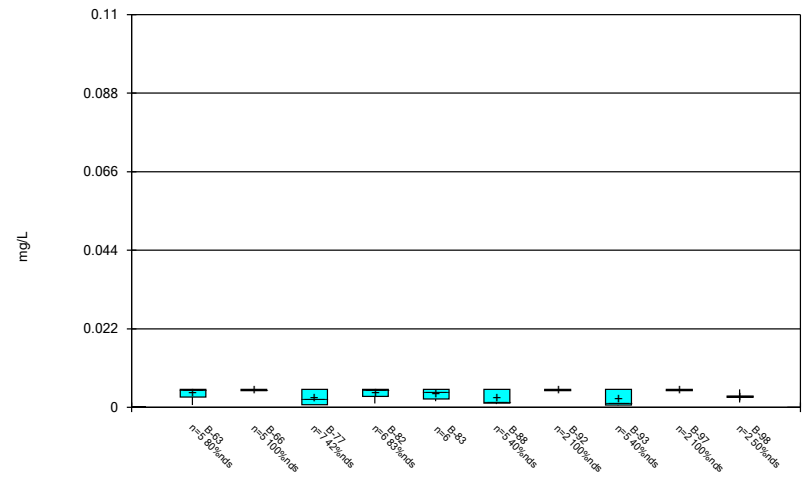
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



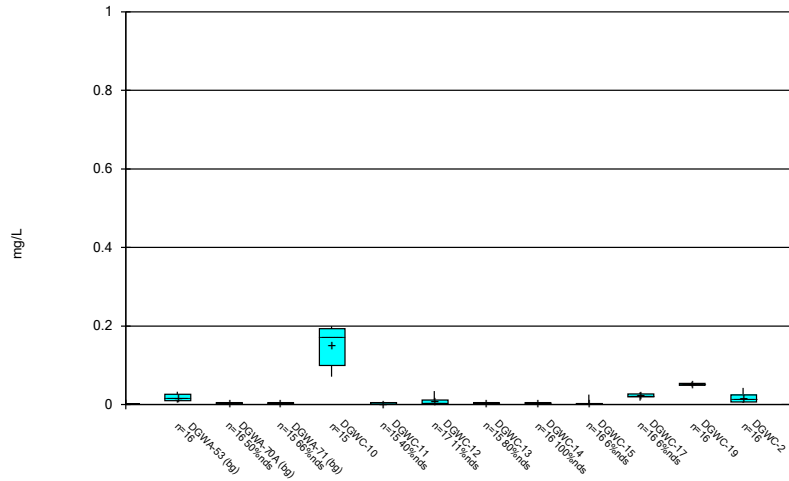
Constituent: Chromium Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



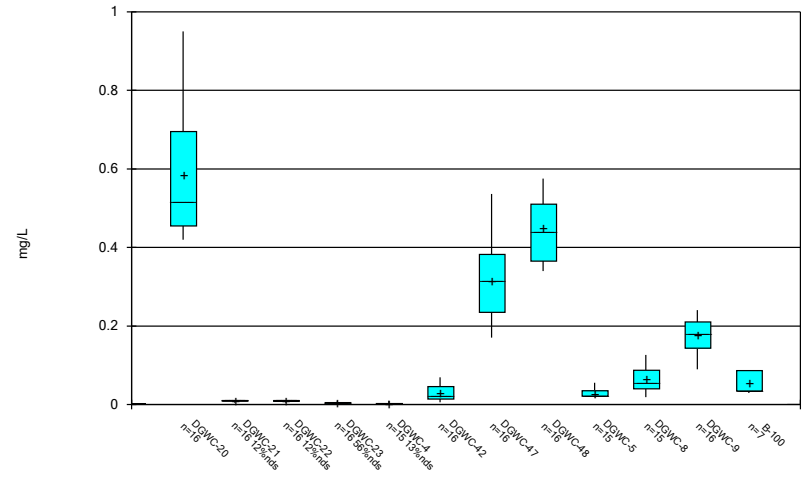
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



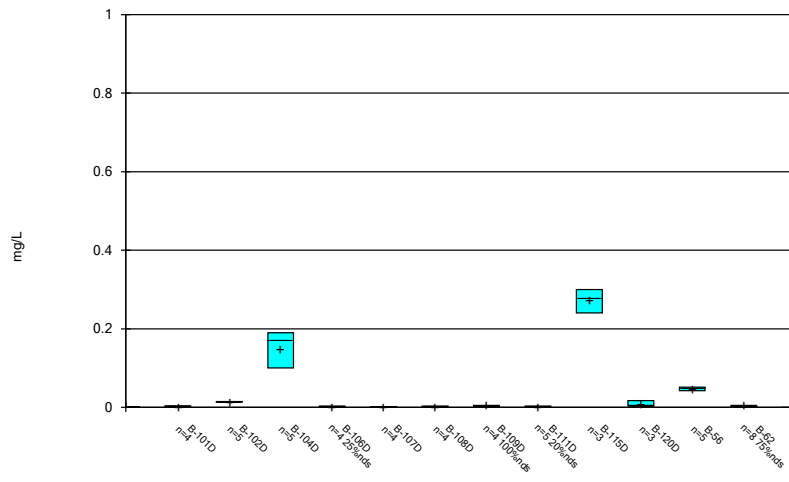
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



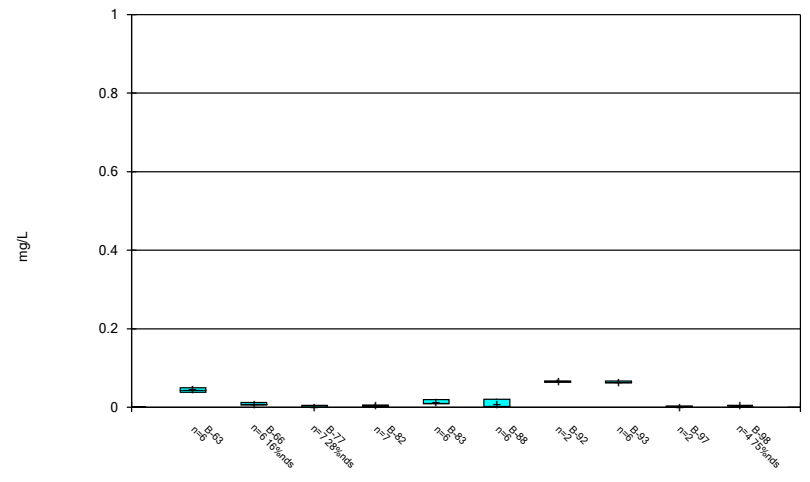
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



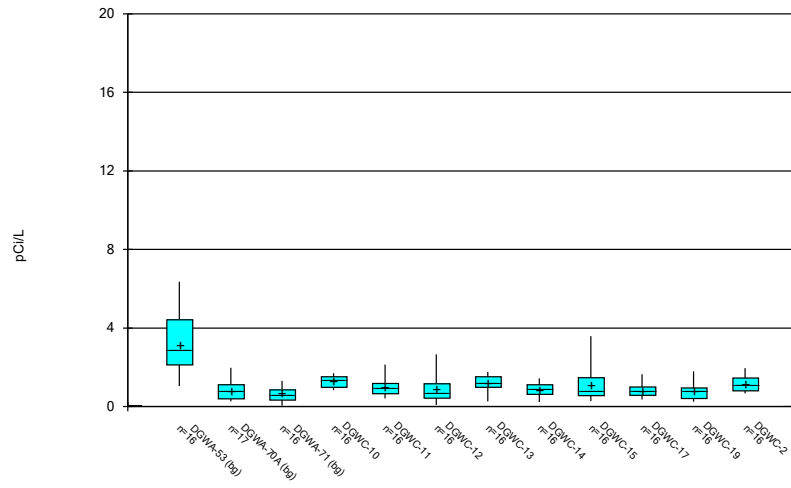
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



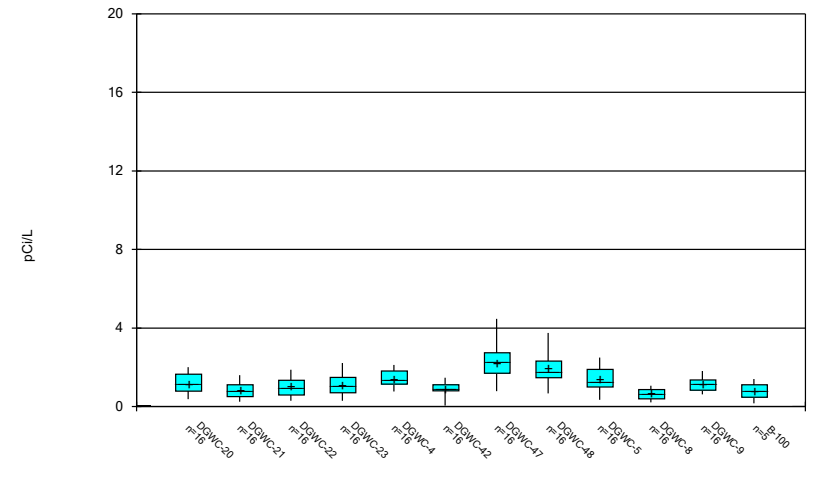
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



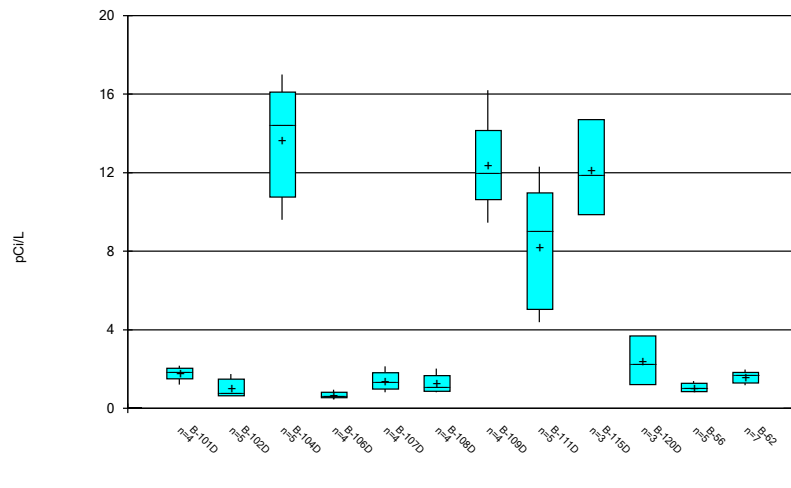
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



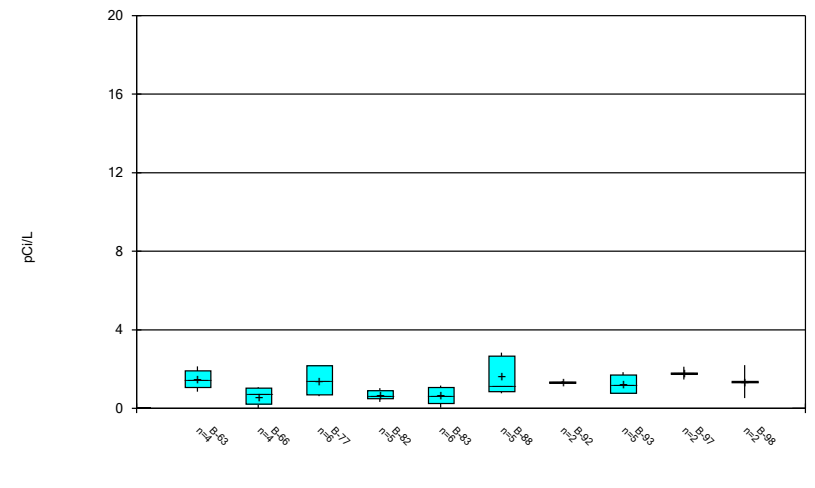
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



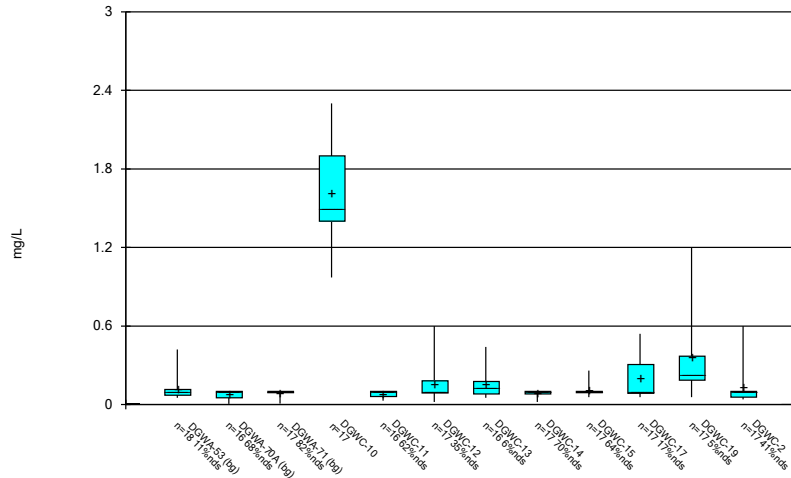
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



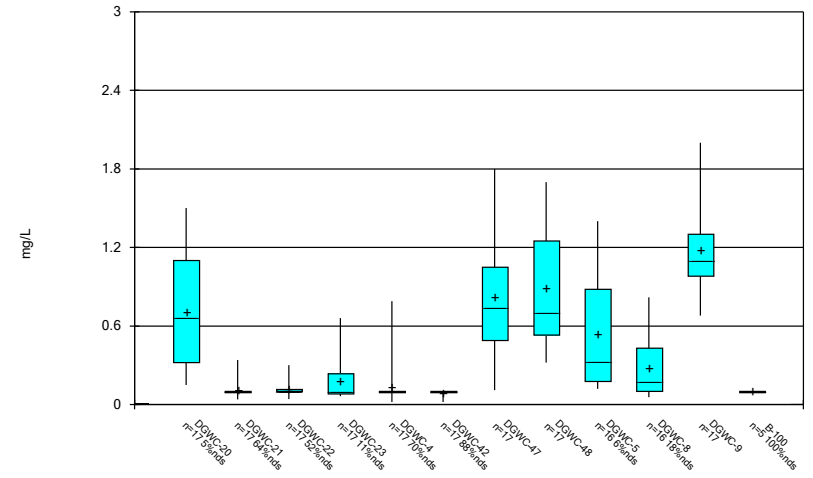
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



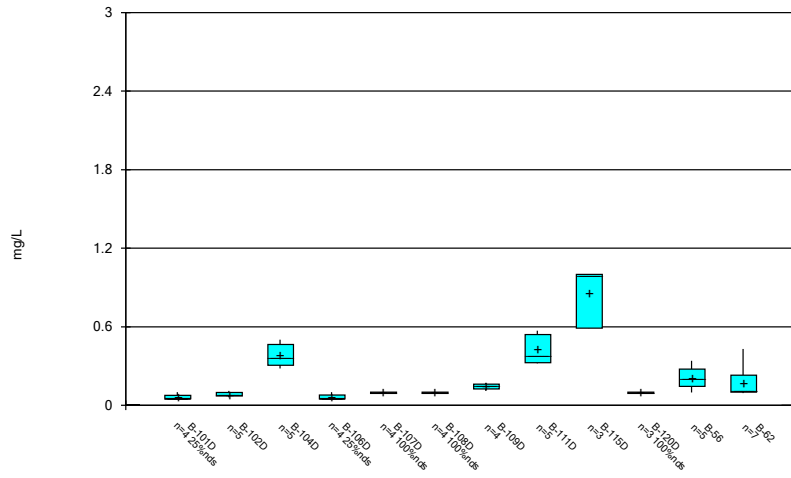
Constituent: Fluoride, total Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



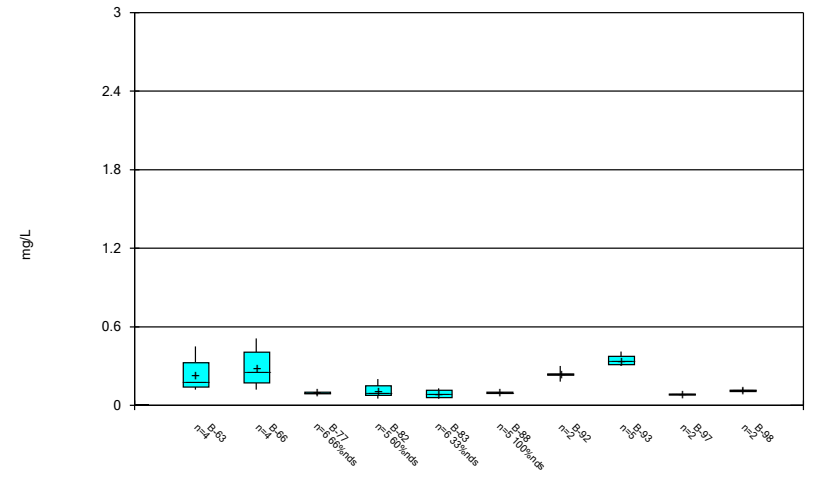
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Box & Whiskers Plot



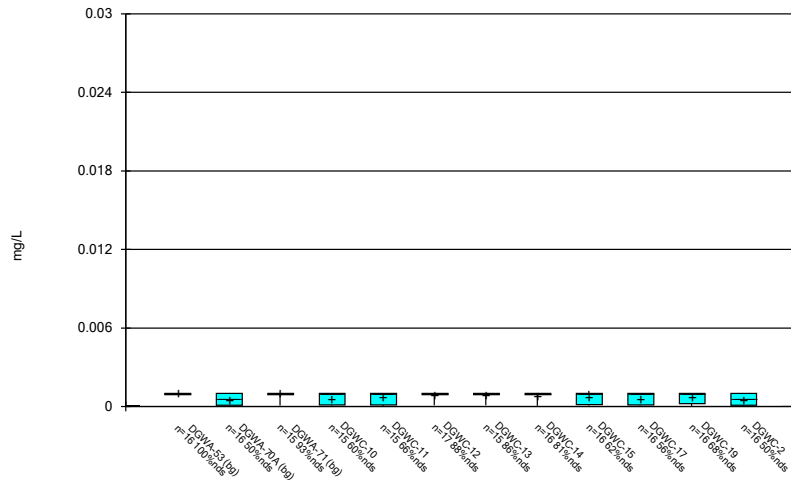
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Box & Whiskers Plot



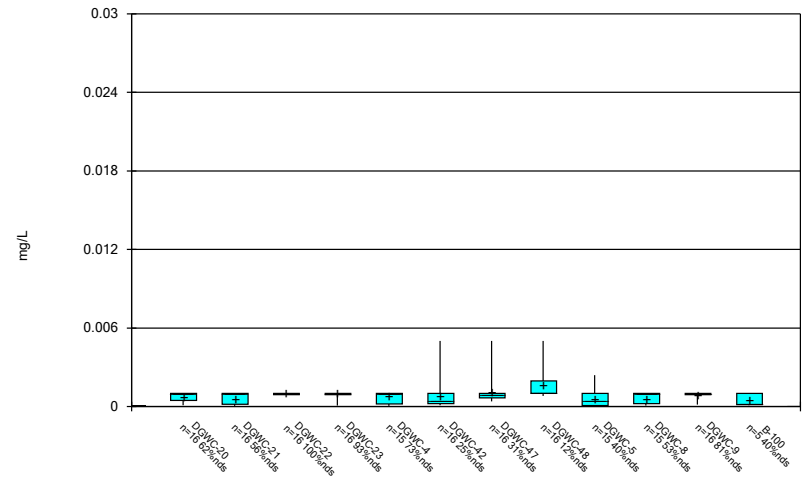
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



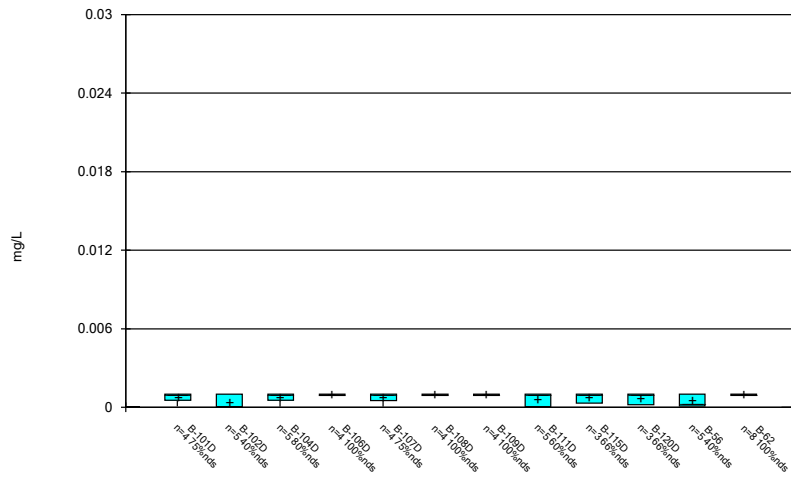
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



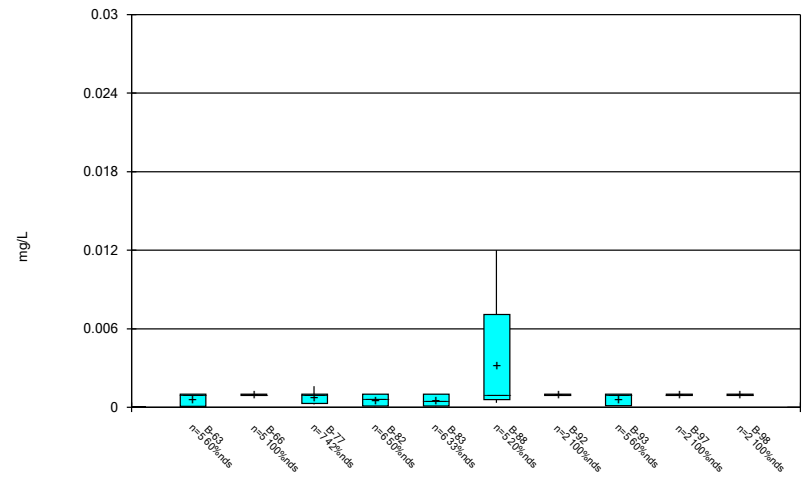
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



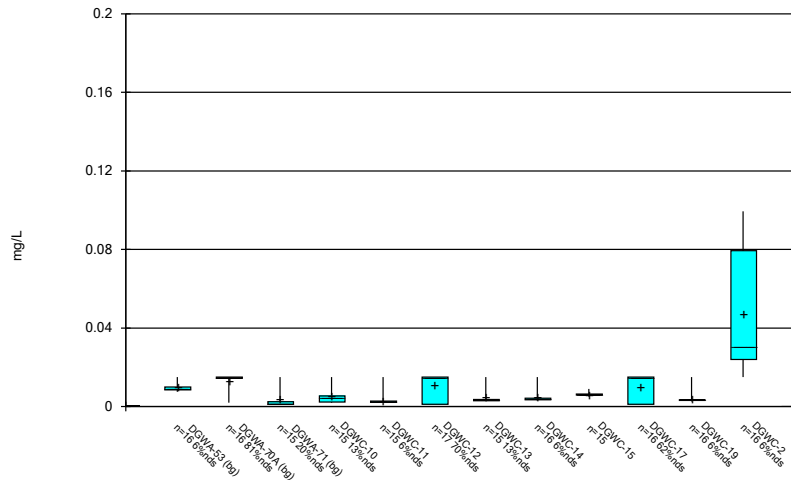
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Box & Whiskers Plot



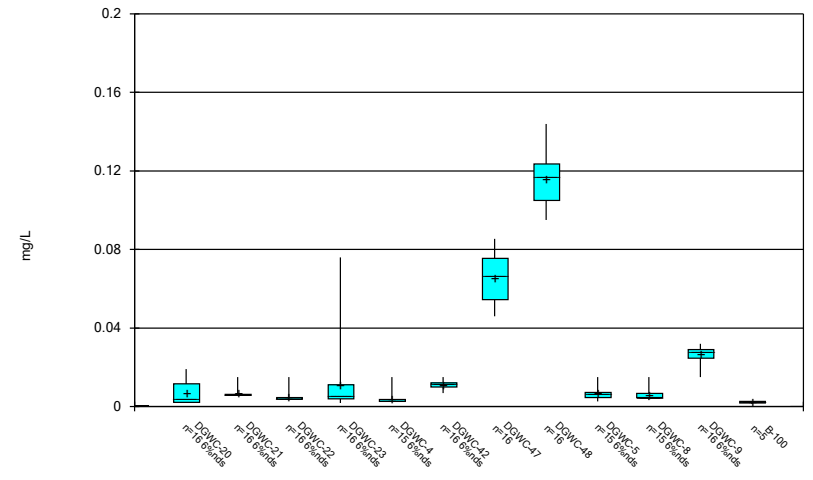
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



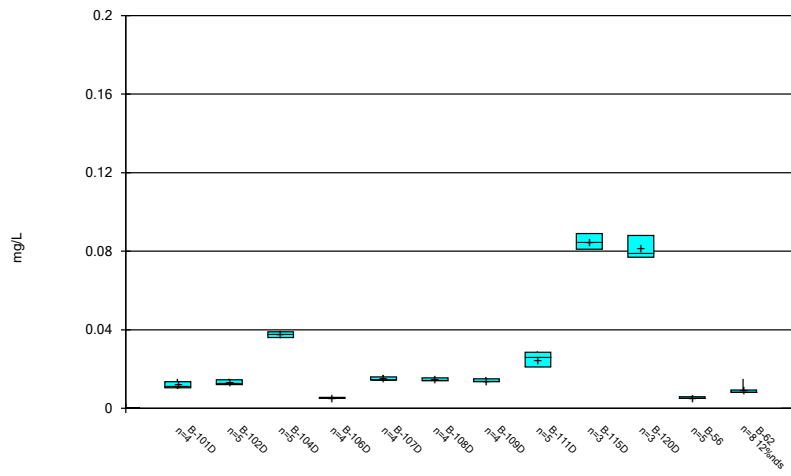
Constituent: Lithium Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



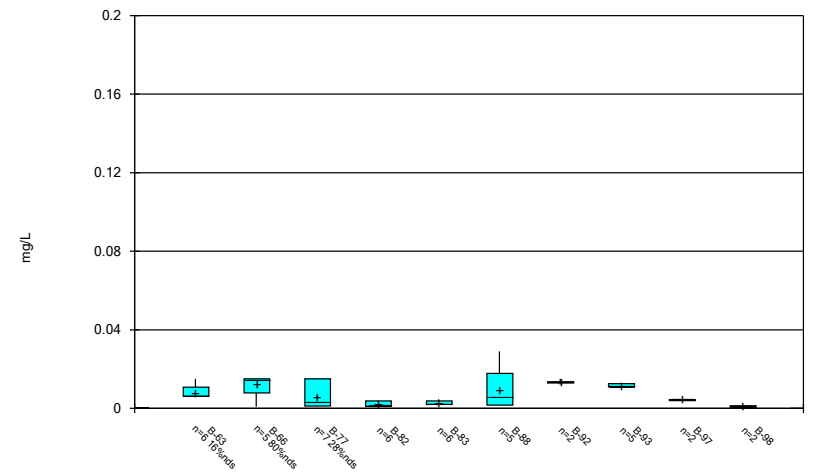
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



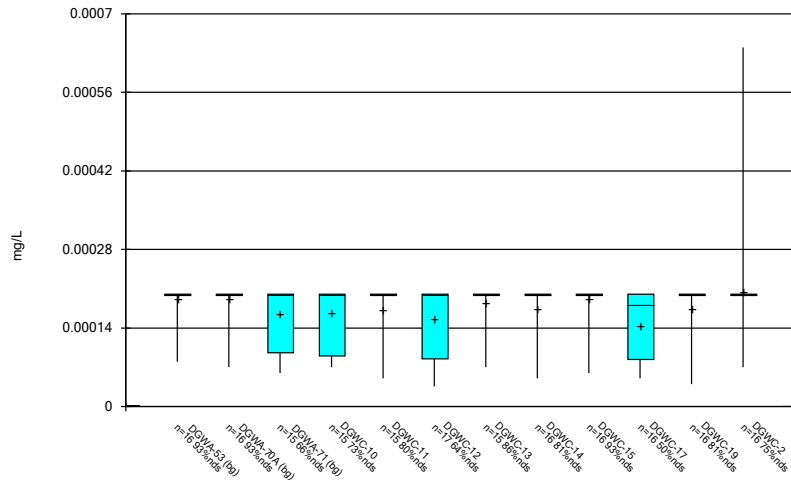
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



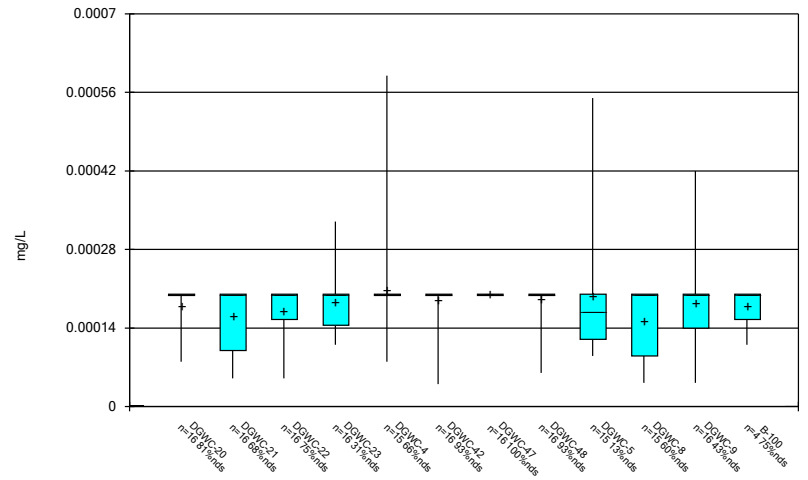
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



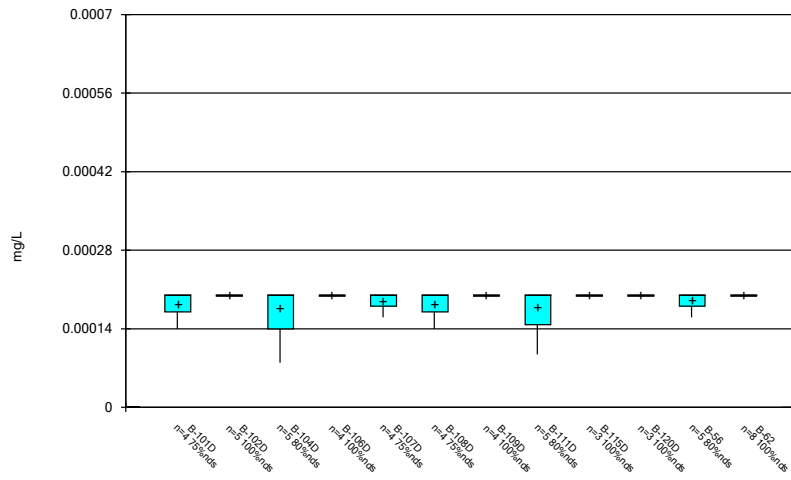
Constituent: Mercury Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



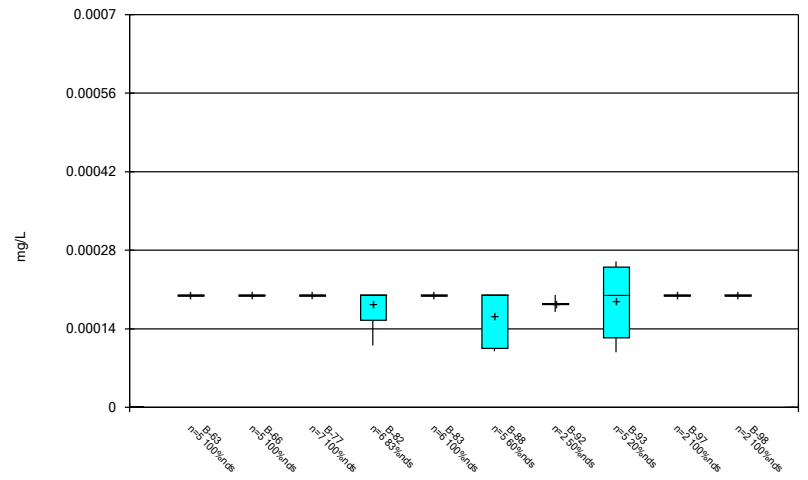
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



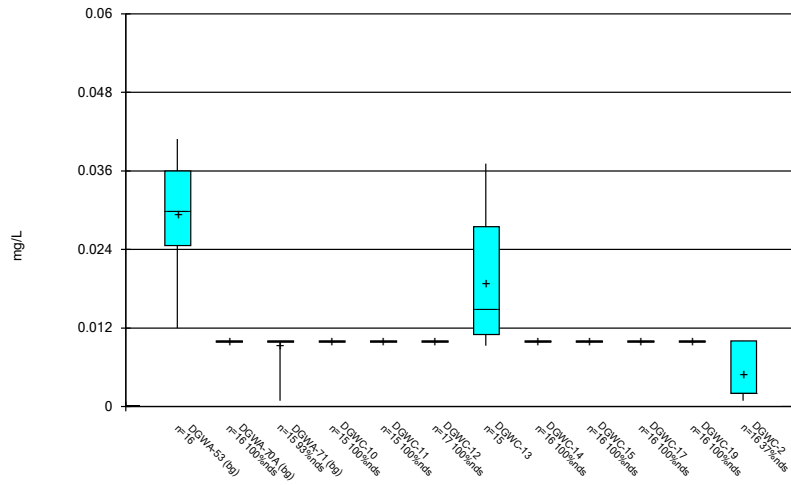
Constituent: Mercury Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



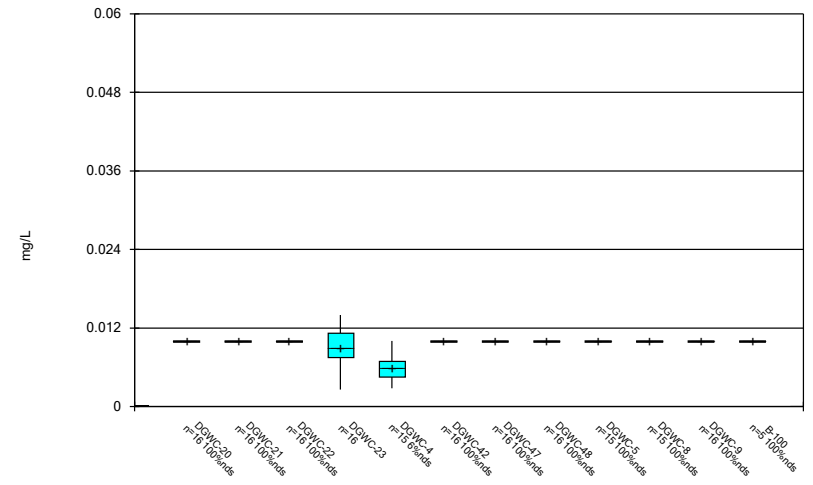
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



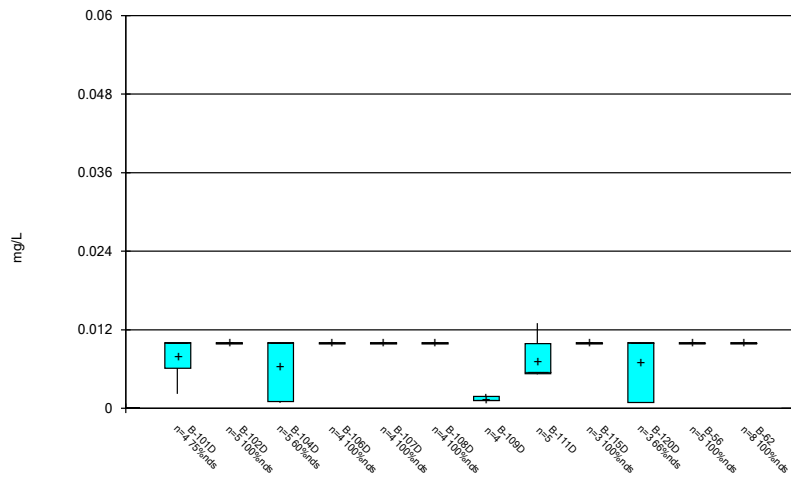
Constituent: Molybdenum Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



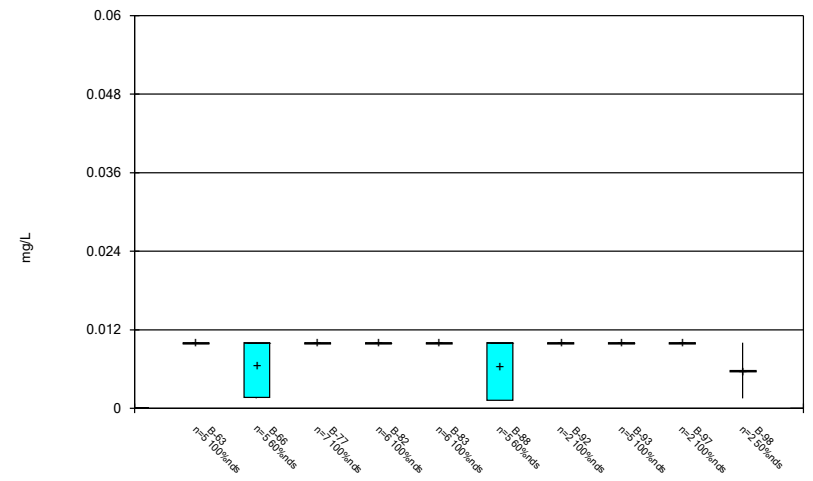
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



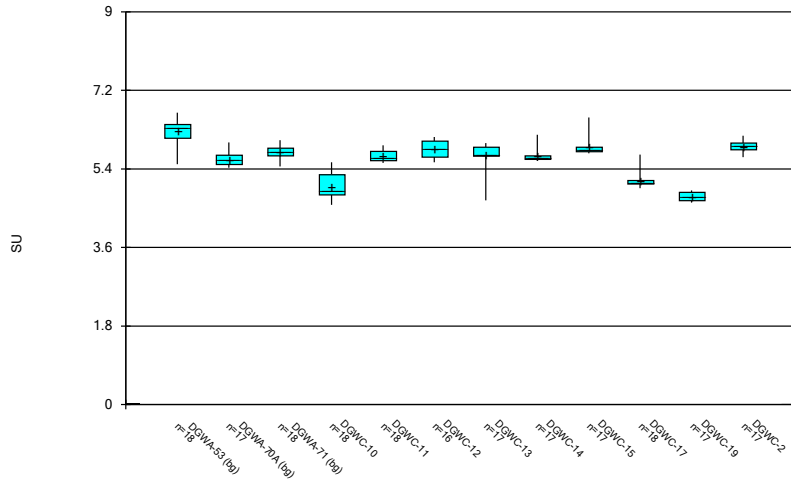
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



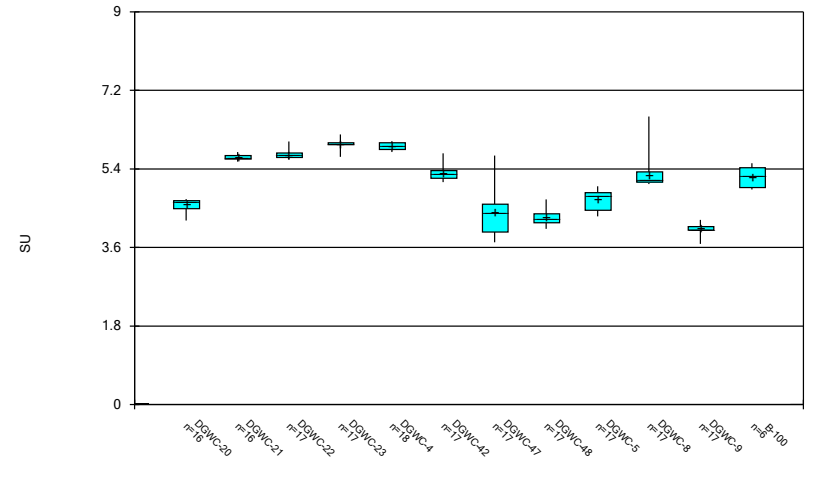
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



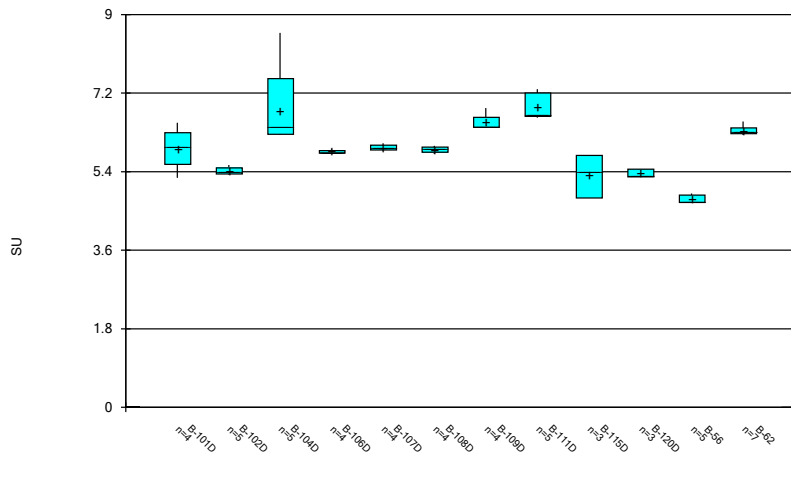
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Box & Whiskers Plot



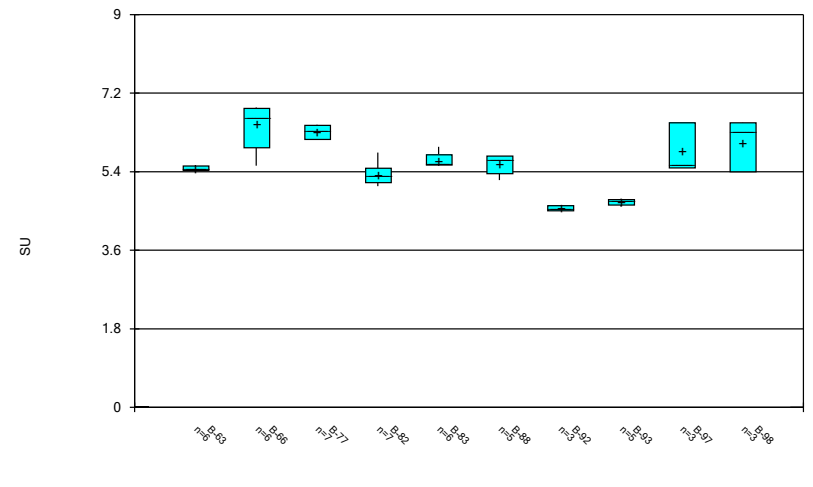
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



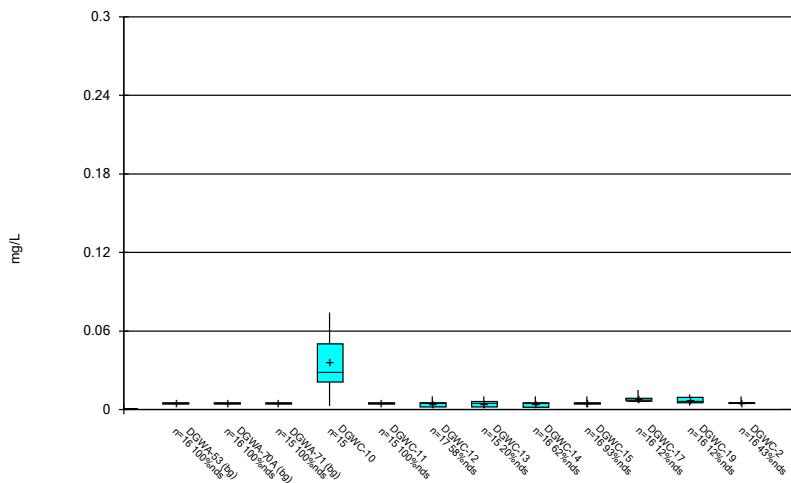
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



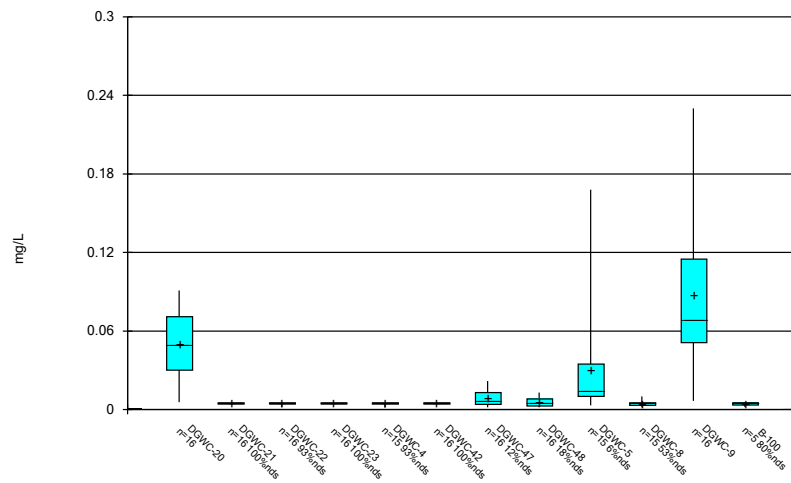
Constituent: pH, Field Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



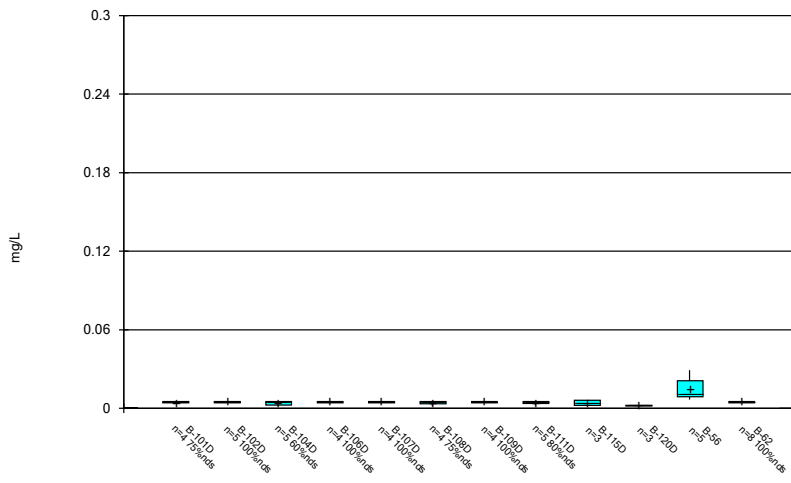
Constituent: Selenium Analysis Run 4/13/2022 4:22 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



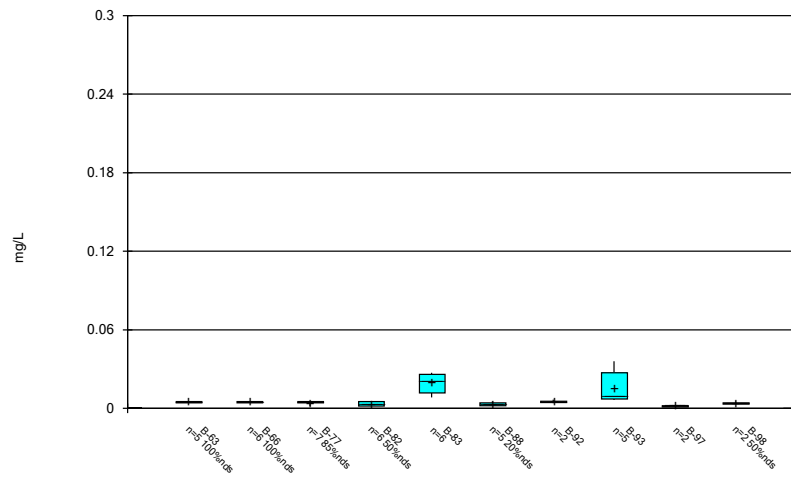
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



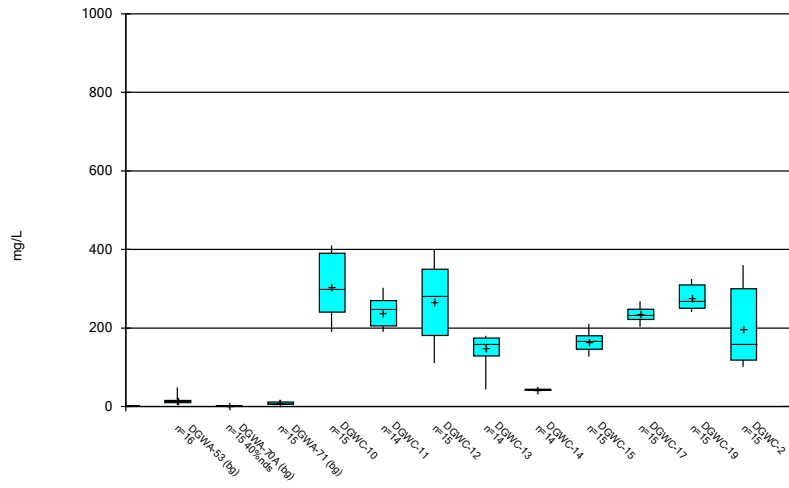
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Box & Whiskers Plot



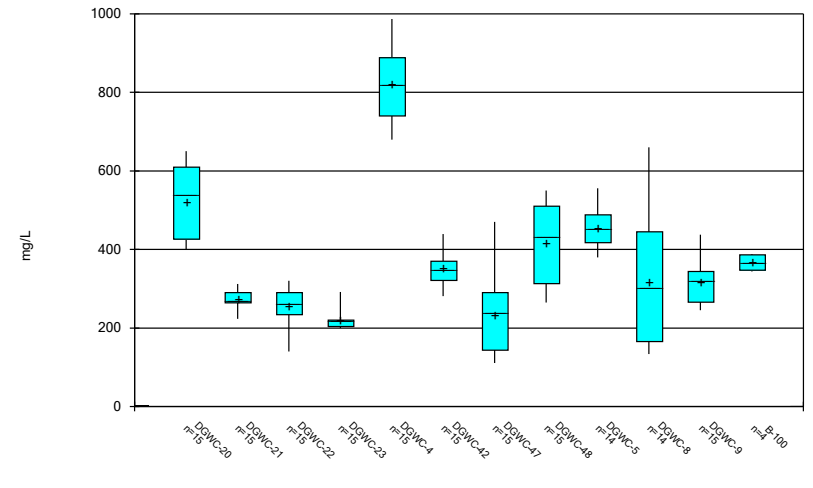
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



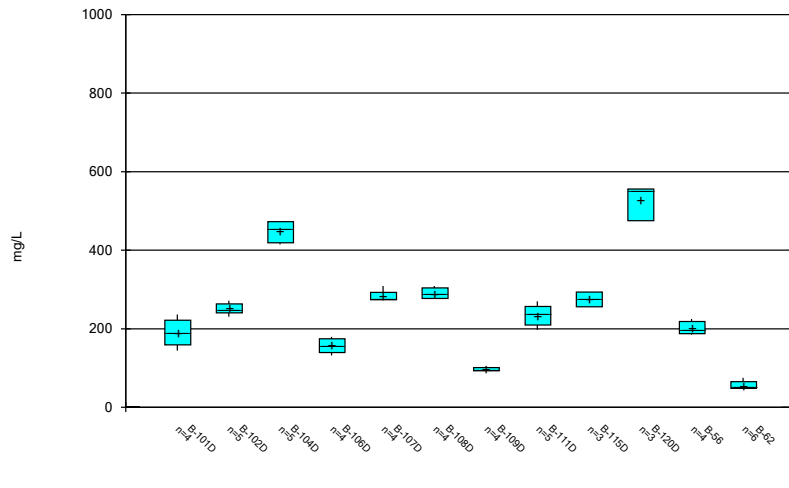
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



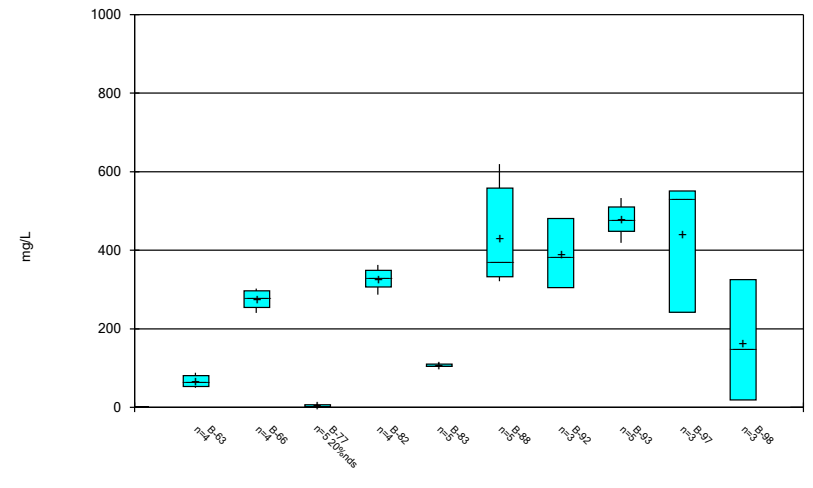
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



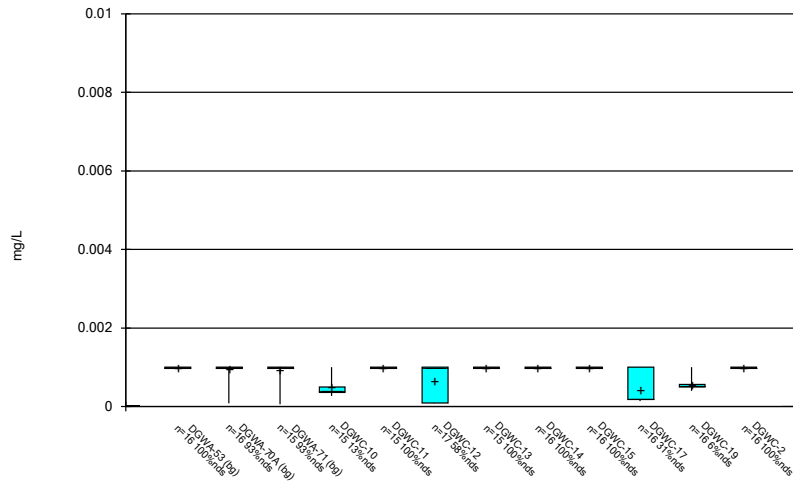
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



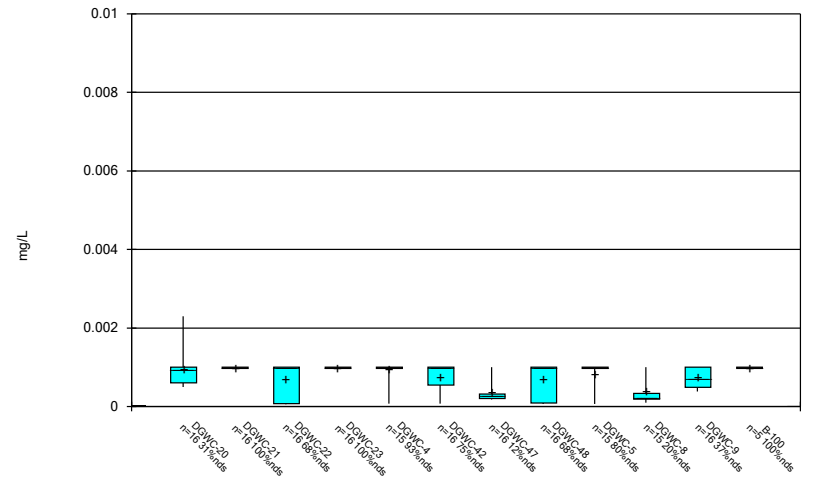
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



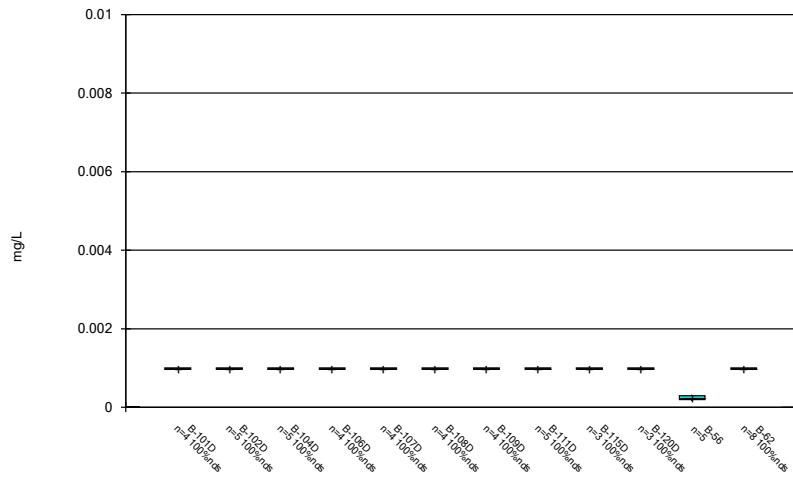
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



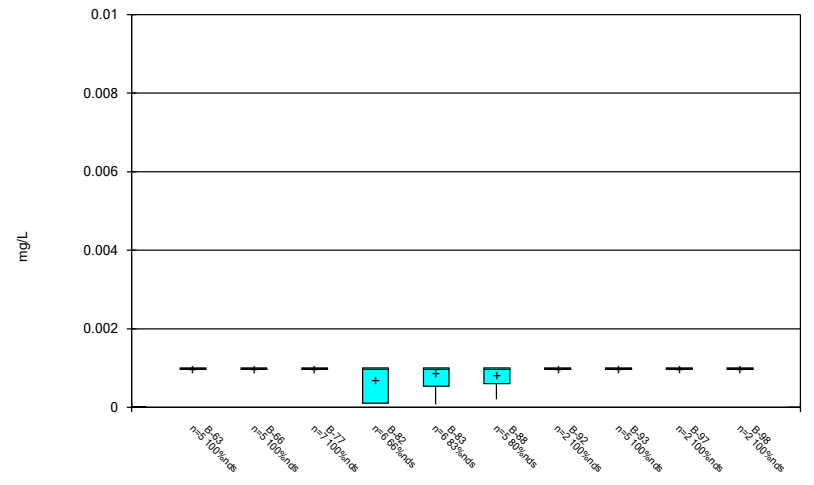
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



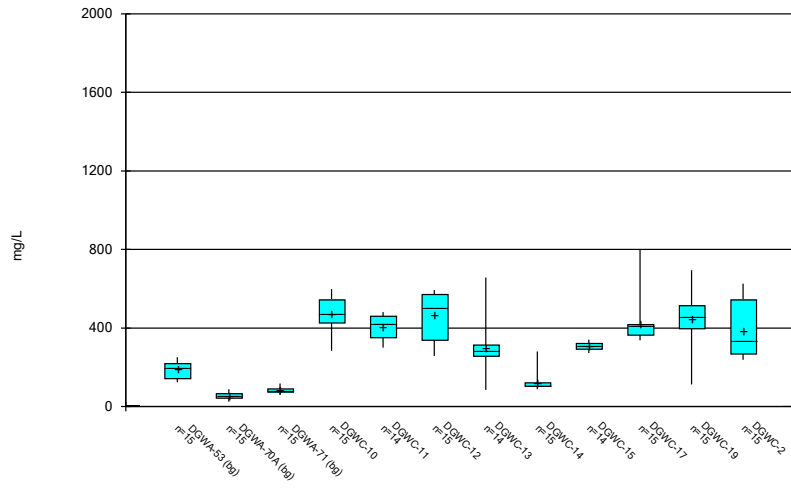
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



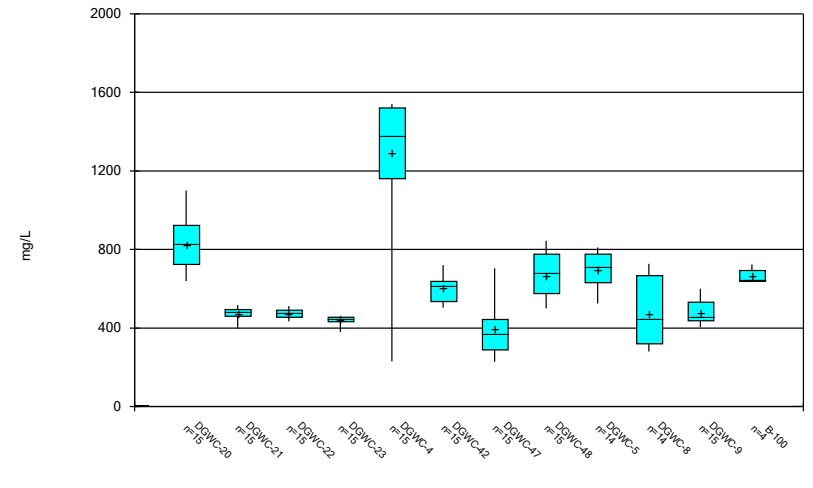
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



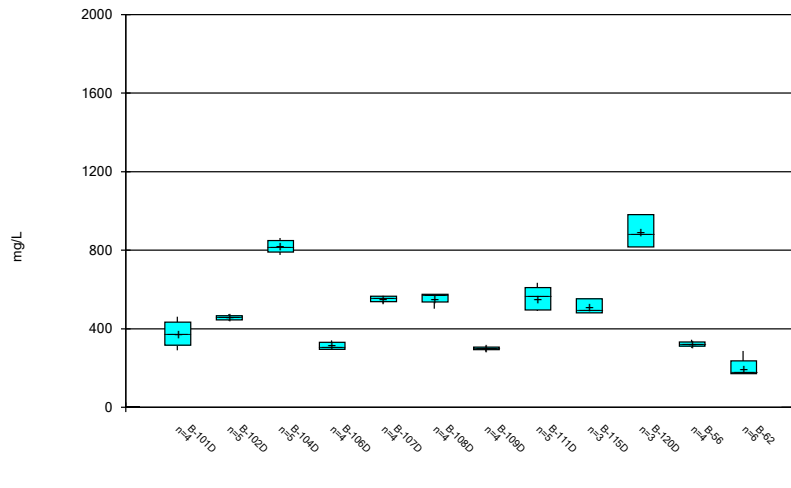
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



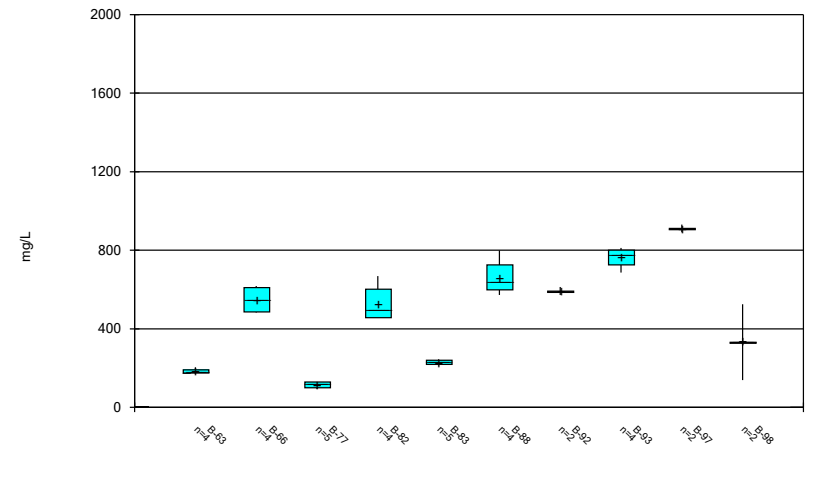
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:26 PM

	DGWC-5 Barium (mg/L)	DGWC-12 Chloride, Total (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride, total (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate as SO4 (mg/L)	DGWA-53 Total Dissolved Solids [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017							490 (O)	
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019		0.034 (O)						

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 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)	DGWC-10	0.13	n/a	1/26/2022	0.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	1/21/2022	1.3	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	1/21/2022	0.64	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	1/24/2022	0.59	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	1/26/2022	1.2	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.648	5.14	1/26/2022	4.9	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.648	5.14	1/25/2022	4.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.648	5.14	1/25/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.648	5.14	1/21/2022	4.47	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.648	5.14	1/21/2022	3.72	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.648	5.14	1/24/2022	4.03	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.648	5.14	1/24/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.648	5.14	1/26/2022	3.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-10	32.59	n/a	1/26/2022	241	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022	250	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022	111	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022	116	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022	44.4	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022	127	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022	225	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022	288	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022	101	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022	406	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022	223	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022	221	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022	211	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022	816	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022	281	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022	135	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022	265	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022	434	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022	134	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022	245	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	292	n/a	1/26/2022	425	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	292	n/a	1/25/2022	465	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	292	n/a	1/24/2022	294	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	292	n/a	1/25/2022	694	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	292	n/a	1/21/2022	702	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	292	n/a	1/20/2022	434	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022	453	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	292	n/a	1/24/2022	1520	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	292	n/a	1/20/2022	504	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	292	n/a	1/24/2022	500	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	292	n/a	1/24/2022	810	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	292	n/a	1/26/2022	409	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Obsrv.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	1/26/2022	0.4	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	1/25/2022	0.097	No	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	1/25/2022	28.5	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	1/25/2022	12.4	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	1/24/2022	33.2	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	1/24/2022	15.6	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	1/20/2022	38.1	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	1/21/2022	31	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	1/25/2022	36.8	No	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.9	n/a	1/25/2022	3.7	No	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.9	n/a	1/20/2022	2	No	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	5.9	n/a	1/21/2022	3.1	No	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower LimDate	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method	
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	1/25/2022	0.093J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	1/25/2022	0.063J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	1/25/2022	0.16	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	1/21/2022	1.3	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	1/21/2022	0.64	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	1/24/2022	0.59	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	1/24/2022	0.19	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	1/26/2022	1.2	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.648	5.14	1/26/2022	4.9	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-11	6.648	5.14	1/25/2022	5.54	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.648	5.14	1/25/2022	5.96	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.648	5.14	1/25/2022	4.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-14	6.648	5.14	1/25/2022	5.69	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.648	5.14	1/24/2022	6.06	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.648	5.14	1/24/2022	5.15	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.648	5.14	1/25/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-2	6.648	5.14	1/20/2022	5.93	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.648	5.14	1/21/2022	4.47	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-21	6.648	5.14	1/20/2022	5.73	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.648	5.14	1/20/2022	5.72	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.648	5.14	1/20/2022	5.95	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.648	5.14	1/24/2022	5.79	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.648	5.14	1/20/2022	5.27	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.648	5.14	1/21/2022	3.72	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.648	5.14	1/24/2022	4.03	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.648	5.14	1/24/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.648	5.14	1/25/2022	5.16	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.648	5.14	1/26/2022	3.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	32.59	n/a	1/26/2022	241	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022	250	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022	111	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022	116	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022	44.4	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022	127	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022	225	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022	288	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022	101	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022	406	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022	223	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022	221	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022	211	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022	816	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022	281	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022	135	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022	265	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022	434	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022	134	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022	245	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	292	n/a	1/26/2022	425	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	292	n/a	1/25/2022	465	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	292	n/a	1/25/2022	258	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	292	n/a	1/25/2022	256	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

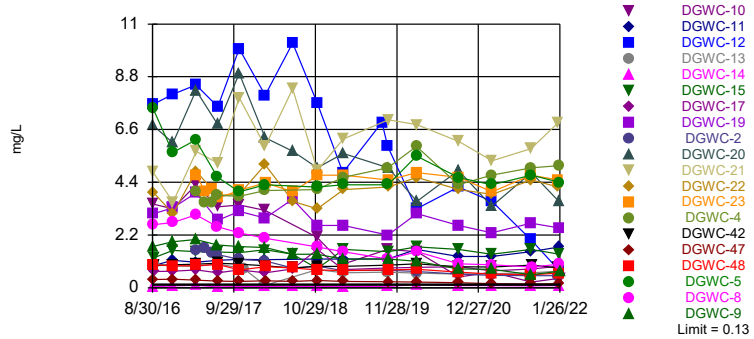
Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 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)	DGWC-14	292	n/a	1/25/2022	120	No	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	292	n/a	1/24/2022	294	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	292	n/a	1/25/2022	694	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	292	n/a	1/20/2022	238	No	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	292	n/a	1/21/2022	702	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	292	n/a	1/20/2022	434	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022	453	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	292	n/a	1/24/2022	1520	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	292	n/a	1/20/2022	504	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	292	n/a	1/21/2022	289	No	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	292	n/a	1/24/2022	500	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	292	n/a	1/24/2022	810	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	292	n/a	1/25/2022	281	No	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	292	n/a	1/26/2022	409	Yes	45	4.565	0.9289	0	None		x^(1/3) 0.0003762	Param Inter 1 of 2

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit Interwell Non-parametric

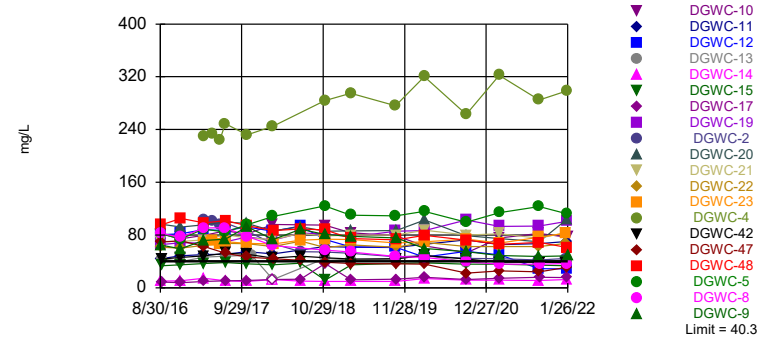


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 25% NDs. Annual per-constituent alpha = 0.03613. Individual comparison alpha = 0.0009194 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-13, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit Interwell Non-parametric

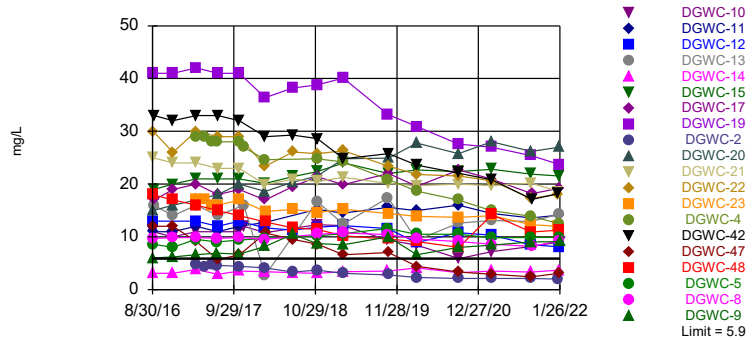


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 4.545% NDs. Annual per-constituent alpha = 0.03613. Individual comparison alpha = 0.0009194 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22...

Prediction Limit Interwell Non-parametric

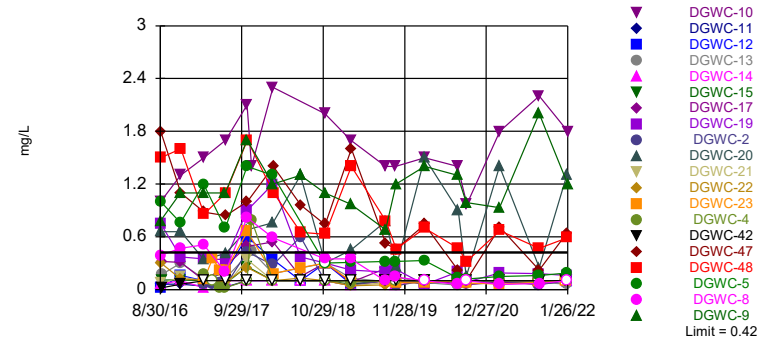


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. Annual per-constituent alpha = 0.0334. Individual comparison alpha = 0.000849 (1 of 2). Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48, DGWC-9

Prediction Limit Interwell Non-parametric

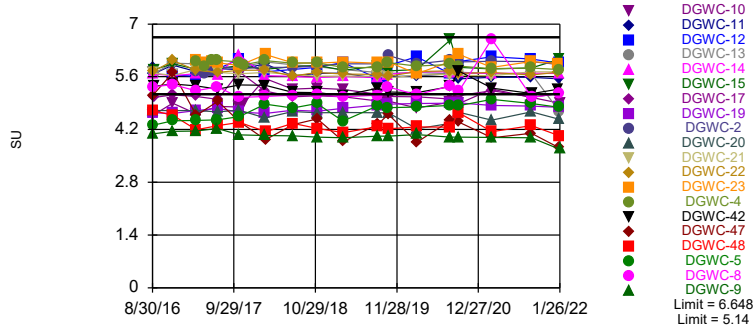


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 52.94% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-13, DGWC-19, DGWC-20, DGWC-47, DGWC-48, DGWC-5, DGWC-9

Prediction Limit
Interwell Parametric

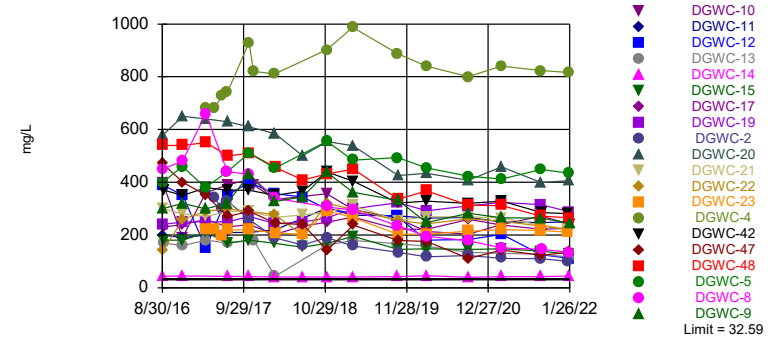


Background Data Summary: Mean=5.894, Std. Dev.=0.3426, n=53. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9401, critical = 0.938. Kappa = 2.201 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 3/14/2022 1:49 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20...

Prediction Limit
Interwell Parametric

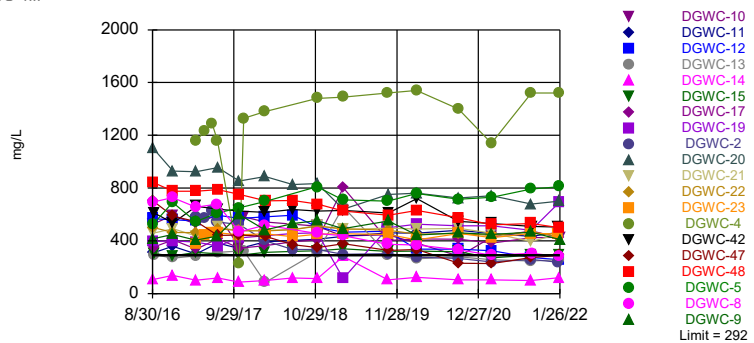


Background Data Summary (based on square root transformation): Mean=2.545, Std. Dev.=1.423, n=46, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9306, critical = 0.927. Kappa = 2.224 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 1:49 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.565, Std. Dev.=0.9289, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9341, critical = 0.926. Kappa = 2.228 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 1:49 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	4.01	0.0067 (J)	0.0097 (J)		
3/29/2017					
3/30/2017				4.68	1.56
3/31/2017					
5/11/2017					1.65
5/12/2017	3.58		0.0082 (J)	4.03	
5/15/2017		0.0073 (J)			
6/15/2017	3.58	<0.04		4.11	1.44
6/16/2017			0.0085 (J)		
7/11/2017	3.85	<0.04	0.0077 (J)		1.39
7/12/2017				3.74	
7/13/2017					
8/8/2017		<0.04			
10/24/2017	3.82	0.0082 (J)	0.0083 (J)		1.18
10/25/2017					
10/26/2017				4.07	
11/15/2017					
2/27/2018	4.06	0.0062 (J)	0.0069 (J)		1.12
2/28/2018					
3/1/2018				4.37	
3/2/2018					
3/8/2018					
7/11/2018					0.82
7/12/2018				4	
11/6/2018	4.1	<0.04 (J)	<0.04 (J)		0.9
11/7/2018					
11/8/2018				4.7	
3/12/2019	4.6	0.0073 (J)	0.0068 (J)		0.72
3/13/2019					
3/14/2019				4.7	
9/17/2019					
10/15/2019	5	<0.04	0.0054 (J)		
10/16/2019					
10/17/2019					0.73
10/18/2019				4.5	
3/2/2020	5.9	0.0055 (J)	0.01 (J)		
3/3/2020					0.68
3/4/2020				4.8	
3/9/2020					
9/22/2020	4.3	<0.04	<0.04		
9/23/2020					0.57
9/24/2020				4.6	
3/1/2021	4.7	<0.04	0.0054 (J)		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/2/2021					0.52
3/3/2021				4	
3/4/2021					
3/12/2021					
9/8/2021			<0.04		
9/9/2021		<0.04		4.7	0.51
9/10/2021	5				
9/13/2021					
1/18/2022		0.024 (J)	0.015 (J)		
1/20/2022				4.5	0.5
1/21/2022					
1/24/2022	5.1				
1/25/2022					
1/26/2022					
1/28/2022					

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-11	DGWC-14	DGWC-5	DGWC-10	DGWC-12	DGWC-19	DGWC-48
8/30/2016	82.7	64.9							
8/31/2016			44.2	9.95	82.6	81.7			
9/1/2016							80.6	65.6	95.1
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	48.3	10.4	73.9	74.2			
12/7/2016							82.1	68.3	
12/8/2016									105
3/28/2017		71.6			89.1				
3/29/2017	90.5		50.5	14.4		79.5	88.3	68	
3/30/2017									98.6
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	91.1	73.7			84.6				
7/12/2017			50.8	10.5		86.3	87	70	
7/13/2017									102
8/8/2017									
10/24/2017	78.1	92.5	55			81.5			
10/25/2017				9.67	95.6		92.1	77	
10/26/2017									94
11/15/2017									
2/27/2018	64.2	73.1	51.4	<25	108	96.2	85.6		
2/28/2018								72	
3/1/2018									
3/2/2018									86.6
3/8/2018									
7/11/2018		88.5		9.9			93.6	82.7	
7/12/2018									89.1
11/6/2018	57	81.1	62.6		124	94.8			
11/7/2018				9.7			73.3	81.7	88
11/8/2018									
3/12/2019	54.3	78.1	61.4		110	83.5	62.1		
3/13/2019				9.7				76.9	
3/14/2019									74.6
10/15/2019			61.2			79.1	61.4		
10/16/2019	47.3			9.4	109			85.7	
10/17/2019		75.6							
10/18/2019									72.7
3/2/2020			65.8		116		46.5		
3/3/2020	46	59.5		14		63.6		86.8	
3/4/2020									79.7
3/9/2020									
9/22/2020		54.7	72.7	11.6	99.2		55.4	103	
9/23/2020	39.3								72.2
9/24/2020						53.1			
3/1/2021									
3/2/2021	35.6	48.8	65.3	11.4	114			93.2	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	69.3								
9/2/2016		96.3	61.6	70.2					
9/6/2016					33.6	44			
9/7/2016							43.6	8.61	
12/6/2016									
12/7/2016		91.9			34.7	39.8			
12/8/2016	71.1		60.1	70.1			45.8	7.92	
3/28/2017									30.8
3/29/2017		95.7	64.7						
3/30/2017				72.5	36.9	46.3		9.56	
3/31/2017	62.6						48.3		
5/11/2017									35.8
5/12/2017									
5/15/2017									
6/15/2017									36
6/16/2017									
7/11/2017									
7/12/2017		100		80.4	38.4	47.8		10.4	40.3
7/13/2017	52.5		67.2				52.3		
8/8/2017									
10/24/2017									30.3
10/25/2017		97.3	66.8	75.6	36.2		50.9	10.9	
10/26/2017	46.7								
11/15/2017						49.3			
2/27/2018									
2/28/2018		86.3	62.3	73.2	35	<25	45.1	<25	
3/1/2018	44.2								
3/2/2018									
3/8/2018									39.8
7/11/2018		92.4		82.3	37.5		47.8	13 (J)	
7/12/2018	41.6		71						34.7
11/6/2018									
11/7/2018	38.6	85.9	60.9	78.5	11.4	44.8	45.5	37	28.6
11/8/2018									
3/12/2019									
3/13/2019		86.4		79.9		42.1		11.9 (J)	26.7
3/14/2019	36.6		64.8		34.7		43.5		
10/15/2019									
10/16/2019						43.8			17.7
10/17/2019	36.2	86.9		79.8	37		44.1		
10/18/2019			61.7					12.9	
3/2/2020									
3/3/2020			68.7	87.4	37.8	49.3			
3/4/2020	36	103					48.8	15.8	
3/9/2020									23.7
9/22/2020		79.2					43.8		15.5
9/23/2020	22.3				35.6	39			
9/24/2020			62.6	80				12.7	
3/1/2021									
3/2/2021		74.7			36	40.5			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	229	5.14	8.31		
3/29/2017					
3/30/2017				68.1	103
3/31/2017					
5/11/2017					102
5/12/2017	233		8.04	71.1	
5/15/2017		6.5			
6/15/2017	224	5.38		65.9	96.2
6/16/2017			7.66		
7/11/2017	249	5.96	7.71		98.4
7/12/2017				70	
7/13/2017					
8/8/2017		5.2			
10/24/2017	232	4.93	6.86		86
10/25/2017					
10/26/2017				67.2	
11/15/2017					
2/27/2018	245	<25	<25		66.7
2/28/2018					
3/1/2018				66.5	
3/2/2018					
3/8/2018					
7/11/2018					55
7/12/2018				72	
11/6/2018	284	5.5	5.7		54.5
11/7/2018					
11/8/2018				73.5	
3/12/2019	295	5.1	5.5		52.2
3/13/2019					
3/14/2019				73.2	
10/15/2019	276	5.1	5.1		
10/16/2019					
10/17/2019					47.2
10/18/2019				67.7	
3/2/2020	320	5.3	5.8		
3/3/2020					48.4
3/4/2020				69.8	
3/9/2020					
9/22/2020	263	5	5.4		
9/23/2020					44.4
9/24/2020				73.7	
3/1/2021	322	4.1	5.9		
3/2/2021					44

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/3/2021				68.1	
3/4/2021					
3/12/2021					
9/8/2021			6.1		
9/9/2021		5.3		76.4	42
9/10/2021	285				
9/13/2021					
1/18/2022		6.1	6.6		
1/20/2022				82.7	44.6
1/21/2022					
1/24/2022	299				
1/25/2022					
1/26/2022					
1/28/2022					

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-47	DGWC-12	DGWC-19
8/30/2016	9.7	6							
8/31/2016			3.1	11	11	8.6			
9/1/2016							12	13	41
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	3.1	10	11	8			
12/7/2016								20 (O)	41
12/8/2016							12		
3/28/2017		6.6				9.5			
3/29/2017	9.9		3.8	11	12			13	42
3/30/2017									
3/31/2017							9.1		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9				9			
7/12/2017			2.9	11	11			12	41
7/13/2017							5.7		
8/8/2017									
10/24/2017	9.9	6.7		11	12				
10/25/2017			3.5			9.4		13	41
10/26/2017							6.6		
11/15/2017				12					
2/27/2018	9.5	8.2	3.4	10.8	12.7	9.7		11.7	
2/28/2018									36.4
3/1/2018							10.7		
3/2/2018									
3/8/2018									
7/11/2018		10.5	3.2					11.3	38.2
7/12/2018							9.5		
11/6/2018	10.5	8.7		12.3	15.2	10.2			
11/7/2018			3.1				8.6	11.8	38.8
11/8/2018									
3/12/2019	10.7	8.5		12.1	14.5	10.6		12.1	
3/13/2019			3.4						40.1
3/14/2019							6.6		
10/15/2019				9.4	15.6			11.6	
10/16/2019	10.4		3.5			11.6			33.2
10/17/2019		10					7		
10/18/2019									
3/2/2020					15	10.5		8.9	
3/3/2020	9.6	6.6	4.1	8.4					30.9
3/4/2020							4.4		
3/9/2020									
9/22/2020		8	3.2		16	10.5		10.8	27.6
9/23/2020	9.1						3.3		
9/24/2020				5.9					
3/1/2021									
3/2/2021	8.6	8.4	3.5		14.4	9.8			27

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	18								
9/2/2016		30	15	25					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016			16		14	20			
12/8/2016	17	26		24			19	32	
3/28/2017									3.7
3/29/2017		30	17						
3/30/2017	16			24	16	21	20		
3/31/2017								33	
5/11/2017									2.3
5/12/2017									
5/15/2017									
6/15/2017									2.6
6/16/2017									
7/11/2017									
7/12/2017			18	23	14	21	18		2.3
7/13/2017	15	29						33	
8/8/2017									
10/24/2017									2.7
10/25/2017		29	20	23		21	19	32	
10/26/2017	14								
11/15/2017					16				2.2
2/27/2018									
2/28/2018		23.4	18.6	19.9	2.7	20.1	17	29	
3/1/2018									
3/2/2018	12.8								
3/8/2018									2.4
7/11/2018			20.4	20.9		21.4	19.5	29.3	
7/12/2018	11.7	26.1							2.2
11/6/2018									
11/7/2018	11.4	25.8	21.5	20.5	16.7	22.4	21.4	28.6	2.3
11/8/2018									
3/12/2019									
3/13/2019			24.8	21.3	12.4		19.9		3.6
3/14/2019	10.2	26.3				24		24.8	
10/15/2019									
10/16/2019					17.4				2
10/17/2019			24.9	20.1		22		25.8	
10/18/2019	9.6	23.4					22		
3/2/2020									
3/3/2020		21.8		19.7	9.4	22.7			
3/4/2020	9.1		27.8				19.6	23.6	
3/9/2020									1.8
9/22/2020			25.8					22.1	1.6
9/23/2020	8				12.6	22.4			
9/24/2020		21.5		20			22.7		
3/1/2021									
3/2/2021			28		13.1	22.8			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	3.6	3.8	29		
3/29/2017					
3/30/2017				17	4.8
3/31/2017					
5/11/2017					4.4
5/12/2017	3.8		29	17	
5/15/2017		2.2			
6/15/2017		2	28	16	4.8
6/16/2017	3.4				
7/11/2017	3.1	2.1	28		4.6
7/12/2017				16	
7/13/2017					
8/8/2017		2.2			
10/24/2017	3.2	2.4	28		4.4
10/25/2017					
10/26/2017				17	
11/15/2017	3.1		27		
2/27/2018	3.2	2.5	24.6		4.1
2/28/2018					
3/1/2018				14.8	
3/2/2018					
3/8/2018					
7/11/2018					3.3
7/12/2018				15.2	
11/6/2018	2.6	2.3	24.8		3.7
11/7/2018					
11/8/2018				14.6	
3/12/2019	3.3	2.5	24.2		3.1
3/13/2019					
3/14/2019				15.2	
10/15/2019	3.3	2.2	20.9		
10/16/2019					
10/17/2019					2.8
10/18/2019				14.4	
3/2/2020	3	1.9	18.7		
3/3/2020					2.3
3/4/2020				13.9	
3/9/2020					
9/22/2020	5.2	1.9	17		
9/23/2020					2.1
9/24/2020				13.7	
3/1/2021	3.9	1.9	15		
3/2/2021					2.1

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/3/2021				14	
3/4/2021					
3/12/2021					
9/8/2021	5.9				
9/9/2021		1.9		12.3	2.1
9/10/2021			13.9		
9/13/2021					
1/18/2022	5.9	1.9			
1/20/2022				12	2
1/21/2022					
1/24/2022			12.5		
1/25/2022					
1/26/2022					
1/28/2022					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47
8/30/2016	0.78	0.39							
8/31/2016			0.06 (J)	0.06 (J)	1	1			
9/1/2016							0.02 (J)	0.75	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.1	0.47	0.1 (J)	0.06 (J)	1.3	0.76			
12/7/2016							0.16 (J)	0.37	
12/8/2016									1.1
3/28/2017	1.1					1.2			
3/29/2017		0.51	0.02 (J)	0.04 (J)	1.5		0.1 (J)	0.35	
3/30/2017									
3/31/2017									0.88
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	1.1	0.2 (J)				0.7			
7/12/2017			<0.1	0.03 (J)	1.7		0.2 (J)	0.34	
7/13/2017									0.84
8/8/2017									
10/24/2017	1.7	0.82		<0.1	2.1				
10/25/2017			<0.1			1.4	0.6	0.9	
10/26/2017									1
11/15/2017					1.4				
2/27/2018	1.2	0.59	<0.1	<0.1	2.3	1.3	0.34		
2/28/2018								1.2	
3/1/2018									1.4
3/2/2018									
3/8/2018									
7/11/2018	1.3		<0.1				<0.1	0.37	
7/12/2018									0.96
11/6/2018	1.1	0.35		<0.1	2	<0.3 (J)			
11/7/2018			<0.1				<0.3 (J)	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.97	0.35		0.052 (J)	1.7	0.31	0.065 (J)		
3/13/2019			0.042 (J)					0.22 (J)	
3/14/2019									1.6
8/27/2019	0.68		<0.1	<0.1	1.4	0.32	<0.1		
8/28/2019		0.098 (J)						0.2	
8/29/2019									0.52
10/15/2019				<0.1	1.4		<0.1		
10/16/2019		0.14 (J)	0.052 (J)			0.32		0.23 (J)	
10/17/2019	1.2								0.46
10/18/2019									
3/2/2020				0.064 (J)		0.33	0.071 (J)		
3/3/2020	1.4	<0.1	<0.1		1.5			0.056 (J)	
3/4/2020									0.74
3/9/2020									
8/11/2020	1.3		<0.1	<0.1	1.4		<0.1	0.2	
8/12/2020		0.056 (J)				0.13			0.22

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	1.5								
9/2/2016		0.07 (J)	0.3	0.66					
9/6/2016					0.17 (J)	0.11 (J)			
9/7/2016							0.32	0.02 (J)	
12/6/2016									
12/7/2016				0.66	0.3	0.11 (J)			
12/8/2016	1.6	0.14 (J)	0.12 (J)				0.31	0.06 (J)	
3/28/2017									0.17 (J)
3/29/2017			0.11 (J)	0.34					
3/30/2017	0.86	<0.1			0.12 (J)	<0.1	0.1 (J)		
3/31/2017								<0.1	
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									0.02 (J)
6/16/2017									
7/11/2017									0.02 (J)
7/12/2017		0.04 (J)		0.41	0.13 (J)	0.07 (J)	0.27 (J)		
7/13/2017	1.1		0.09 (J)					<0.1	
8/8/2017									
10/24/2017									<0.1
10/25/2017		0.34	0.25 (J)	0.68		0.26 (J)	0.49	<0.1	
10/26/2017	1.7								
11/15/2017					0.44				0.79
2/27/2018									<0.1
2/28/2018		<0.1	<0.1	0.76	0.18	<0.1	0.54	<0.1	
3/1/2018									
3/2/2018	1.1								
3/8/2018									
7/11/2018		<0.1		1.3		<0.1	0.15 (J)	<0.1	
7/12/2018	0.65		0.13 (J)						
11/6/2018									<0.1
11/7/2018	0.63	<0.1	<0.1	<0.3 (J)	<0.3 (J)	<0.1	<0.3 (J)	<0.1	
11/8/2018									
3/12/2019									0.082 (J)
3/13/2019		0.043 (J)		0.45	0.13 (J)		0.084 (J)		
3/14/2019	1.4		0.042 (J)			0.057 (J)		<0.1	
8/27/2019							0.24 (J)		<0.1
8/28/2019					0.091 (J)	<0.1		<0.1	
8/29/2019	0.78	0.079 (J)	0.054 (J)	0.78					
10/15/2019									<0.1
10/16/2019					0.14 (J)				
10/17/2019		<0.1		0.26 (J)		0.079 (J)		<0.1	
10/18/2019	0.46		<0.1				0.086 (J)		
3/2/2020									<0.1
3/3/2020		<0.1	<0.1		0.078 (J)	<0.1			
3/4/2020	0.7			1.5			<0.1	<0.1	
3/9/2020									
8/11/2020									
8/12/2020					0.051 (J)				<0.1

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.06 (J)	0.12 (J)			1.2 (O)
3/29/2017					
3/30/2017			0.12 (J)	0.06 (J)	
3/31/2017					
5/11/2017		0.07 (J)		0.06 (J)	
5/12/2017	<0.1		0.36		
5/15/2017					0.005 (J)
6/15/2017		0.19 (J)	0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017	0.008 (J)				
7/11/2017	0.007 (J)			0.04 (J)	0.06 (J)
7/12/2017		0.1 (J)	0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	<0.1	0.06 (J)		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	<0.1	0.05 (J)			
2/27/2018	<0.1			0.28	<0.1
2/28/2018					
3/1/2018			0.18		
3/2/2018					
3/8/2018		<0.1			
7/11/2018				0.6	
7/12/2018		0.071 (J)	0.25 (J)		
11/6/2018	<0.1			<0.1	<0.1
11/7/2018		<0.1			
11/8/2018			<0.3 (J)		
3/12/2019	<0.1			0.052 (J)	0.039 (J)
3/13/2019		0.13 (J)			
3/14/2019			0.092 (J)		
8/27/2019	<0.1			<0.1	<0.1
8/28/2019		0.42			
8/29/2019			0.095 (J)		
10/15/2019	<0.1				<0.1
10/16/2019		0.11 (J)			
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020	<0.1				<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020		0.1 (J)			
8/11/2020	<0.1			<0.1	<0.1
8/12/2020					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/13/2020		0.062 (J)	0.1		
8/14/2020					
9/22/2020	<0.1	0.099 (J)			<0.1
9/23/2020				<0.1	
9/24/2020			0.075 (J)		
3/1/2021	<0.1				<0.1
3/2/2021				<0.1	
3/3/2021			0.063 (J)		
3/4/2021					
3/12/2021		0.076 (J)			
9/8/2021	<0.1				
9/9/2021		0.099 (J)	0.084 (J)	0.053 (J)	<0.1
9/10/2021					
9/13/2021					
1/18/2022	<0.1				<0.1
1/20/2022			<0.1	<0.1	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		0.08 (J)			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	5.94	6.29			
3/29/2017					
3/30/2017			5.75	6.03	
3/31/2017					
5/11/2017		6.6	5.67		
5/12/2017	5.46			5.97	
5/15/2017					5.72
6/15/2017		6.41	5.75	6	5.74
6/16/2017	5.81				
7/11/2017	5.74		5.87		5.62
7/12/2017		5.91		5.97	
7/13/2017					
8/8/2017					5.6
10/24/2017	5.86	5.51	5.82		5.71
10/25/2017					
10/26/2017				5.9	
11/15/2017	5.77	6.5			
2/27/2018	5.66		5.85		5.5
2/28/2018					
3/1/2018				6.19	
3/2/2018					
3/8/2018		6.18			
7/10/2018	5.63				5.44
7/11/2018			5.85		
7/12/2018		6.33		5.97	
11/6/2018	5.79		5.88		5.71
11/7/2018		6.22			
11/8/2018				5.96	
3/12/2019	5.74		5.94		5.52
3/13/2019		6			
3/14/2019				5.99	
8/27/2019	5.87		5.94		5.53
8/28/2019		6.04			
8/29/2019				5.96	
9/17/2019					
10/15/2019	5.88				5.61
10/16/2019		6.69			
10/17/2019			6.16		
10/18/2019				5.99	
3/2/2020	5.77				5.54
3/3/2020			5.94		
3/4/2020				5.68	
3/9/2020		6.41			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/11/2020	5.96		6.04		5.86
8/12/2020					
8/13/2020		6.17		6	
8/14/2020					
9/22/2020	6.06	6.43			6.01
9/23/2020			5.99		
9/24/2020				6.19	
3/1/2021	5.8				5.43
3/2/2021			6.01		
3/3/2021				5.85	
3/4/2021					
3/12/2021		6.38			
9/8/2021	5.76				
9/9/2021		6.41	6	6	5.5
9/10/2021					
9/13/2021					
1/18/2022	5.51				5.5
1/20/2022			5.93	5.95	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		6.35			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-11	DGWC-5	DGWC-10	DGWC-47	DGWC-48	DGWC-19
8/30/2016	450	300							
8/31/2016			44	200	400	400			
9/1/2016							470	540	240
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	480	320	45	190	460	190			
12/7/2016									250
12/8/2016							400	540	
3/28/2017		300			380				
3/29/2017	660		81 (O)	200		360			250
3/30/2017								550	
3/31/2017							350		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	440	320			440				
7/12/2017			44	210		390			250
7/13/2017							270	500	
8/8/2017									
10/24/2017	430	430		210		410			
10/25/2017			42		510				270
10/26/2017							290	510	
11/15/2017						390			
2/27/2018	340	327	41	220	453	335			
2/28/2018									244
3/1/2018							245		
3/2/2018								456	
3/8/2018									
7/11/2018		344	40.6						249
7/12/2018							240	409	
11/6/2018	307	438		302	556	356			
11/7/2018			41.3				143	432	266
11/8/2018									
3/12/2019	295	362		275	484	297			
3/13/2019			41.2						299
3/14/2019							238	450	
10/15/2019				273		263			
10/16/2019	235		42.1		493				323
10/17/2019		331					179		
10/18/2019								336	
3/2/2020				264	455				
3/3/2020	195	247	45.5			213			292
3/4/2020							176	368	
3/9/2020									
9/22/2020		282	40.2	267	423				310
9/23/2020	178						111	313	
9/24/2020						204			
3/1/2021									
3/2/2021	152	266	42.6	250	412				324

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	390								
9/2/2016		140	300	580					
9/6/2016					170	180			
9/7/2016							230	370	
12/6/2016									
12/7/2016	350			650	160	180			
12/8/2016		260	280				240	350	
3/28/2017									49
3/29/2017	150	290		640					
3/30/2017			270		180	210	260		
3/31/2017								380	
5/11/2017									21
5/12/2017									
5/15/2017									
6/15/2017									16
6/16/2017									
7/11/2017									
7/12/2017	350		290	630	170	170	230		10
7/13/2017		300						370	
8/8/2017									
10/24/2017									15
10/25/2017	400	290	290	610		180	240	370	
10/26/2017									
11/15/2017					180				3.8
2/27/2018	356								
2/28/2018		278	267	584	43.5	168	203	350	
3/1/2018									
3/2/2018									
3/8/2018									9.7
7/11/2018	344		277	501		154	234	366	
7/12/2018		197							8
11/6/2018									
11/7/2018	298	320	286	554	162	168	248	439	12.8
11/8/2018									
3/12/2019	284								
3/13/2019			312	539	179		268		23.7
3/14/2019		297				195		404	
10/15/2019	270								
10/16/2019					167				15.1
10/17/2019			255	426		146		321	
10/18/2019		254					222		
3/2/2020	181								
3/3/2020		242	269		157	148			
3/4/2020				434			222	329	
3/9/2020									9.5
9/22/2020	183			408				320	13.5
9/23/2020					134	146			
9/24/2020		262	269				259		
3/1/2021									
3/2/2021				458	131	148			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	680	17	2.7		
3/29/2017					
3/30/2017				220	360
3/31/2017					
5/11/2017					340
5/12/2017	680	17		220	
5/15/2017			1		
6/15/2017	730		0.86 (J)	200	300
6/16/2017		11			
7/11/2017	740	11	1.4		330
7/12/2017				220	
7/13/2017					
8/8/2017			1.5		
10/24/2017	930	9.6	1.4		260
10/25/2017					
10/26/2017				220	
11/15/2017	820	7.8			
2/27/2018	811	7.4	0.54 (J)		189
2/28/2018					
3/1/2018				209	
3/2/2018					
3/8/2018					
7/11/2018					162
7/12/2018				202	
11/6/2018	902	7.3	<1 (J)		190
11/7/2018					
11/8/2018				292	
3/12/2019	987	7	0.35 (J)		159
3/13/2019					
3/14/2019				266	
10/15/2019	888	7.4	0.16 (J)		
10/16/2019					
10/17/2019					134
10/18/2019				203	
3/2/2020	840	8.5	<1		
3/3/2020					118
3/4/2020				204	
3/9/2020					
9/22/2020	800	6.5	<1		
9/23/2020					122
9/24/2020				215	
3/1/2021	840	5.2	<1		
3/2/2021					112

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
3/3/2021				221	
3/4/2021					
3/12/2021					
9/8/2021		6.1			
9/9/2021			<1	217	110
9/10/2021	823				
9/13/2021					
1/18/2022		6.3	<1		
1/20/2022				211	101
1/21/2022					
1/24/2022	816				
1/25/2022					
1/26/2022					
1/28/2022					

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-11	DGWC-10	DGWC-14	DGWC-48	DGWC-12	DGWC-19
8/30/2016	693	414							
8/31/2016			524	307	525	106			
9/1/2016							845	568	396
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	690	358	595	138			
12/7/2016								559	400
12/8/2016							777		
3/28/2017		404	545						
3/29/2017	654			300	525	102		550	390
3/30/2017							775		
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	679	436	612						
7/12/2017				382	598	118		594	360
7/13/2017							789		
8/8/2017									
10/24/2017	468	599		342	353				
10/25/2017			650			88		571	423
10/26/2017							753		
11/15/2017					582				
2/27/2018	520	482	698	393	542	99		582	
2/28/2018									440
3/1/2018									
3/2/2018							704		
3/8/2018									
7/11/2018		532				119		593	457
7/12/2018							705		
11/6/2018	456	554	809	412	512				
11/7/2018						113	678	504	461
11/8/2018									
3/12/2019	438	493	711	433	436			465	
3/13/2019						280			113
3/14/2019							625		
10/15/2019				461	447			472	
10/16/2019	374		702			104			500
10/17/2019		550							
10/18/2019							593		
3/2/2020			759	458				338	
3/3/2020	369	444			382	123			526
3/4/2020							630		
3/9/2020									
9/22/2020		461	716	481		105		338	513
9/23/2020	333						575		
9/24/2020					283				
3/1/2021									
3/2/2021	291	449	730	456		105			513

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	704								
9/2/2016		1100	502	459					
9/6/2016					304	296			
9/7/2016							353	611	
12/6/2016									
12/7/2016		930			287	270			
12/8/2016	587		464	491			408	535	
3/28/2017									1160
3/29/2017		923	462						
3/30/2017				436	312	287	338		
3/31/2017	545							661	
5/11/2017									
5/12/2017									1230
5/15/2017									
6/15/2017									1290
6/16/2017									
7/11/2017									1160
7/12/2017		956		505	490 (O)	312	417		
7/13/2017	441		492					641	
8/8/2017									
10/24/2017									229
10/25/2017		854	477	474	290		343	626	
10/26/2017	444								
11/15/2017						325			1330
2/27/2018									1380
2/28/2018		888	476	480	313	84	364	616	
3/1/2018	435								
3/2/2018									
3/8/2018									
7/11/2018		826		485	320		393	638	
7/12/2018	372		486						
11/6/2018									1480
11/7/2018	348	834	511	516	325	314	408	626	
11/8/2018									
3/12/2019									1490
3/13/2019		639		486		656	802		
3/14/2019	378		491		340			630	
10/15/2019									1520
10/16/2019						296			
10/17/2019	327	751		498	319			612	
10/18/2019			480				403		
3/2/2020									1540
3/3/2020			452	490	323	263			
3/4/2020	334	761					414	721	
3/9/2020									
9/22/2020		724						547	1400
9/23/2020	229				317	278			
9/24/2020			455	494			411		
3/1/2021									1140
3/2/2021		742			272	256			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	90	39	202		
3/29/2017					
3/30/2017				380	580
3/31/2017					
5/11/2017			241		573
5/12/2017	92			438	
5/15/2017		88			
6/15/2017		65	251	458	626
6/16/2017	100				
7/11/2017	59	25			542
7/12/2017			218	461	
7/13/2017					
8/8/2017		53			
10/24/2017	117	49	671 (O)		523
10/25/2017					
10/26/2017				446	
11/15/2017	90		241		
2/27/2018	79	43			401
2/28/2018					
3/1/2018				454	
3/2/2018					
3/8/2018			213		
7/11/2018					334
7/12/2018			198	432	
11/6/2018	85	65			334
11/7/2018			200		
11/8/2018				450	
3/12/2019	74	43			297
3/13/2019			201		
3/14/2019				453	
10/15/2019	89	70			
10/16/2019			126		
10/17/2019					302
10/18/2019				448	
3/2/2020	67	52			
3/3/2020					277
3/4/2020				408	
3/9/2020			171		
9/22/2020	74	46	142		
9/23/2020					267
9/24/2020				456	
3/1/2021	62	25			
3/2/2021					241

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
3/3/2021				425	
3/4/2021					
3/12/2021			124		
9/8/2021	75				
9/9/2021		53	131	455	260
9/10/2021					
9/13/2021					
1/18/2022	76	54			
1/20/2022				453	238
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022			155		

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7132	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.08249	75	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.43	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2272	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6903	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3017	65	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03265	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07326	-78	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3967	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2711	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.275	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.601	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.354	87	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-13.53	-95	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	17.38	59	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.628	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.063	55	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1763	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.8473	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4803	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.45	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.662	93	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.037	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.285	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8946	-86	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.126	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.978	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5633	54	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1955	-80	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1642	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-13	-0.06625	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04803	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1902	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.1003	74	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02679	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.216	-55	-53	Yes	15	40	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.312	-82	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-50.98	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-9.472	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	14.93	62	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-53.07	-97	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-48.56	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-8.732	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-15.64	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-51.02	-88	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-54.75	-90	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-69.52	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-23.75	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	30.62	64	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.84	66	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.25	55	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-60.89	-93	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	39.72	67	48	Yes	14	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002527	-24	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	28	53	No	15	53.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0001023	5	48	No	14	21.43	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-10	-0.7132	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.08249	75	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.43	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.07561	-48	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.008405	14	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03786	51	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1663	-50	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2272	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6903	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-21	0.2662	29	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.07733	22	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.0895	26	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3017	65	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-42	-0.01594	-35	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03265	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07326	-78	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-5	-0.1368	-14	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3967	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2711	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.275	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-70A (bg)	-0.06518	-19	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.5623	-35	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.103	-19	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.601	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-13	-0.7799	-18	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.354	87	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-13.53	-95	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-20	-4.061	-29	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.327	53	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.1555	16	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.537	46	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	17.38	59	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.628	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.063	55	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-9	-5.365	-37	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1763	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.079	-43	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.1515	25	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.5794	-39	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.7627	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.8473	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.2641	-11	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4803	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-17	0.529	33	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.45	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.662	93	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.037	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.285	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8946	-86	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.126	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.978	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.3113	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1555	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5633	54	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.003916	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	53	58	No	16	68.75	n/a	n/a	0.01	NP

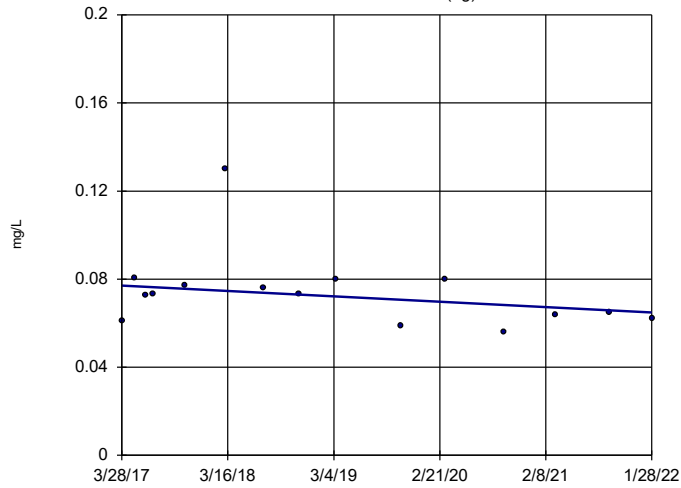
Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-71 (bg)	0	35	63	No	17	82.35	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03586	21	63	No	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04913	16	63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1955	-80	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1642	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-9	0.03215	20	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02528	14	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.00911	13	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.03925	29	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-13	-0.06625	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04803	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.02415	-51	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1902	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-48	-0.04311	-40	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.1003	74	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02679	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.9208	-30	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.216	-55	-53	Yes	15	40	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.312	-82	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-10	-32.25	-48	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.59	36	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-50.98	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-13	-8.89	-47	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.1167	-2	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-9.472	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-17	-0.9288	-12	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	14.93	62	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-53.07	-97	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-48.56	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-8.732	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-9.596	-24	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	23.78	31	53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-15.64	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-51.02	-88	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-54.75	-90	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-5	-1.321	-3	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-69.52	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-9	-11.86	-29	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-23.75	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-4.828	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-33.06	-50	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	30.62	64	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	1.09	7	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.13	46	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.84	66	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-2.212	-6	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.767	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.8022	6	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.25	55	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-20.5	-38	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-60.89	-93	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	39.72	67	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	3.023	4	53	No	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

DGWA-53 (bg)



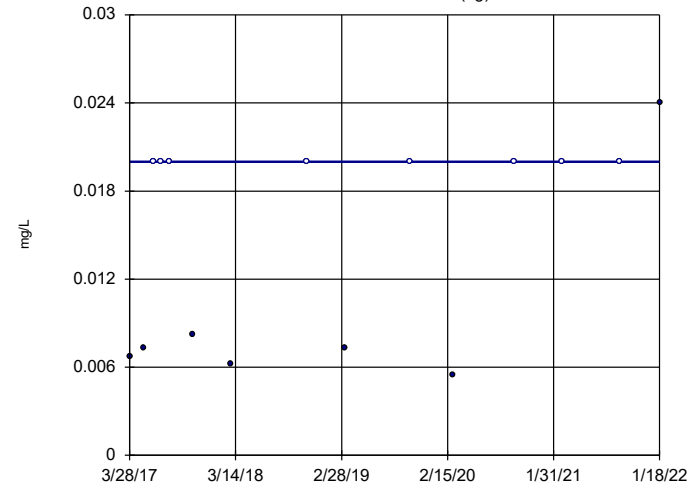
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 Slope = -0.002527
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)

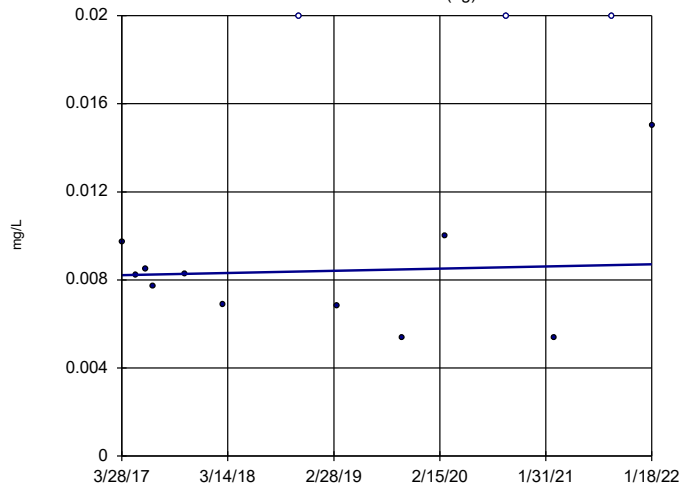


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 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 28
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

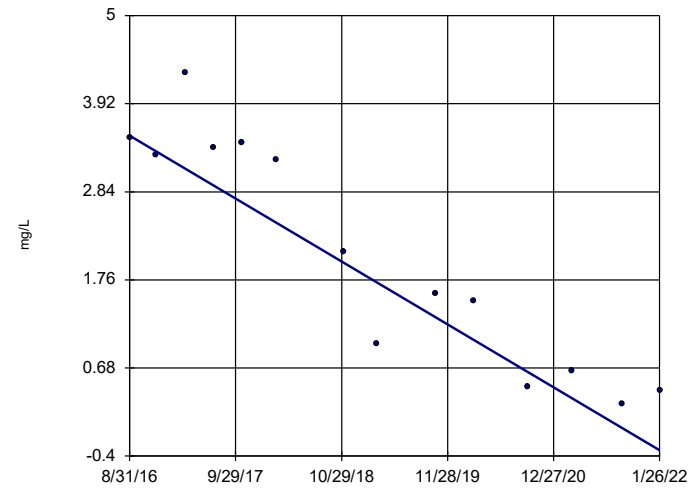


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 Slope = 0.0001023
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

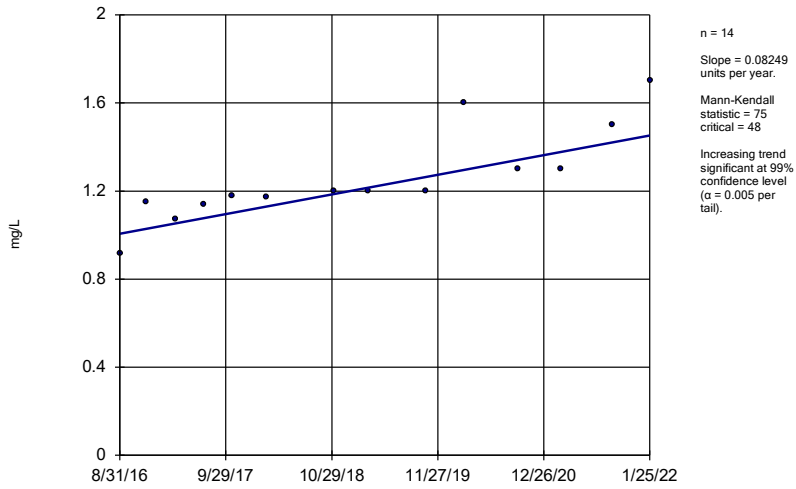
DGWC-10



n = 14
 Slope = -0.7132
 units per year.
 Mann-Kendall
 statistic = -73
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

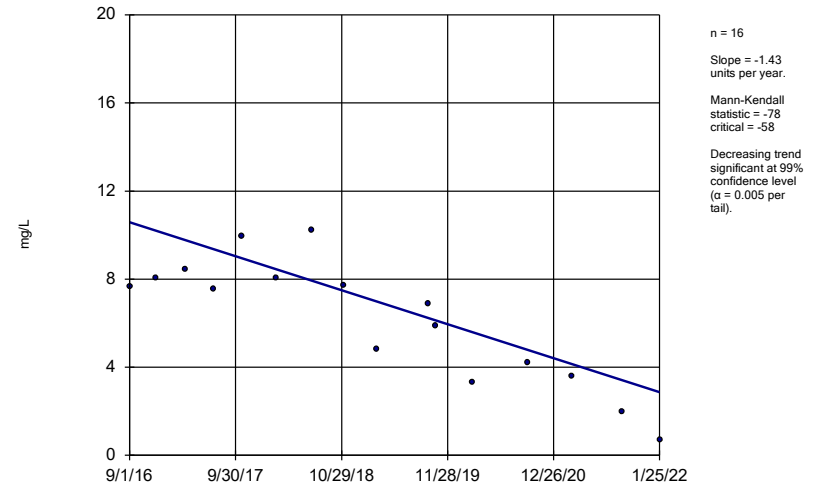
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-11



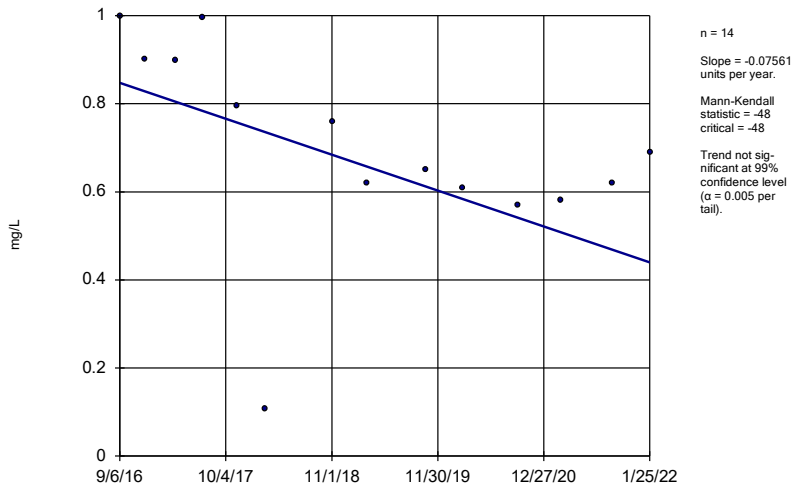
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-12



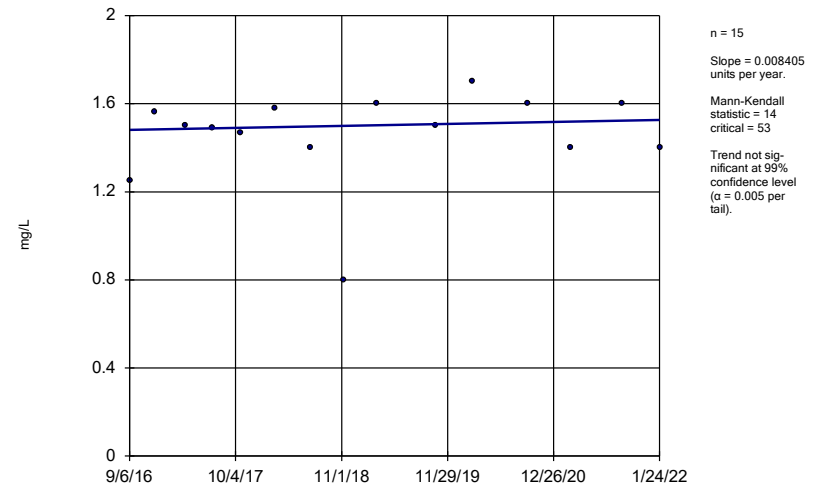
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-13



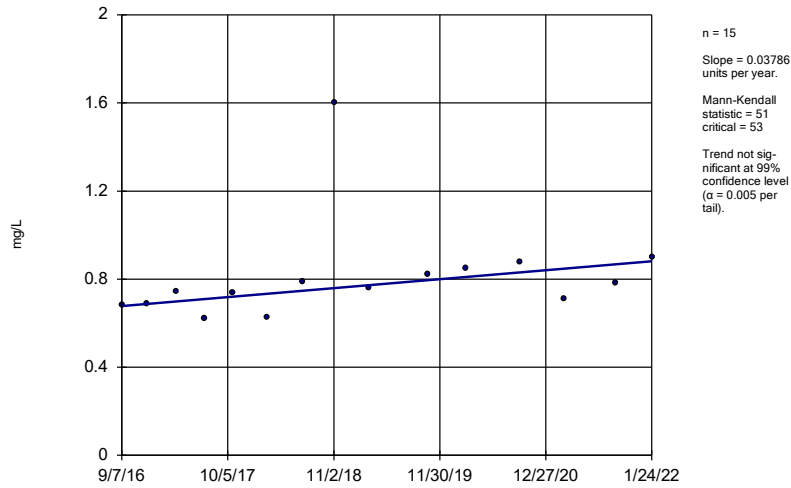
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-15



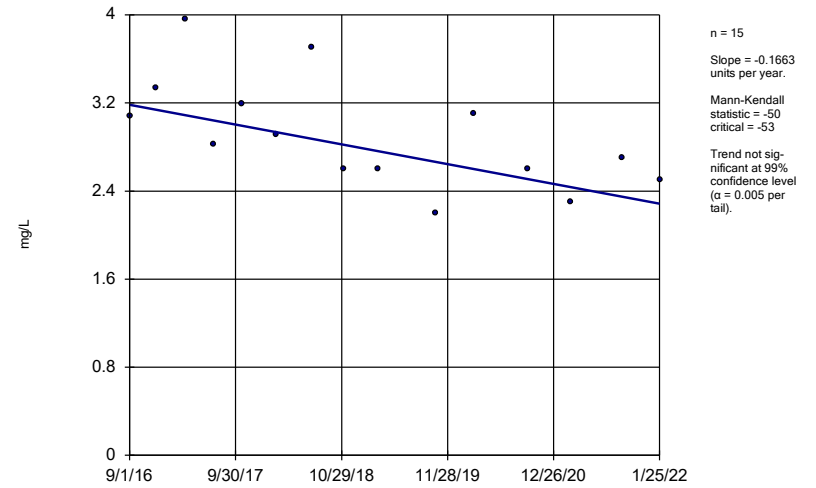
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



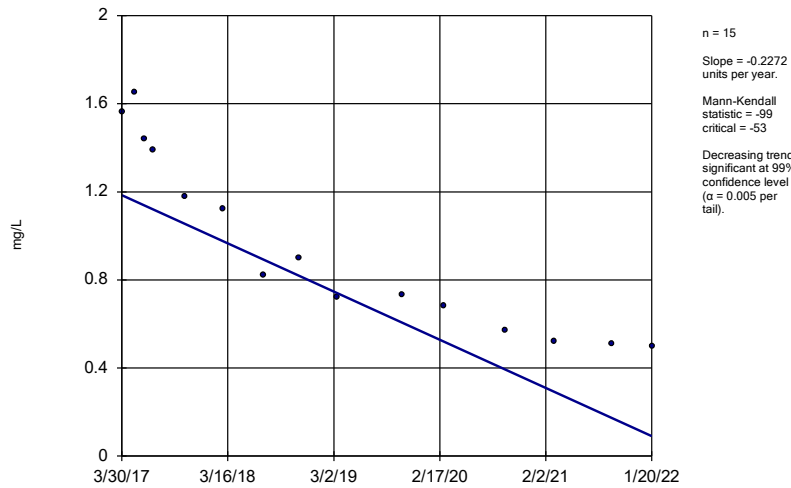
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



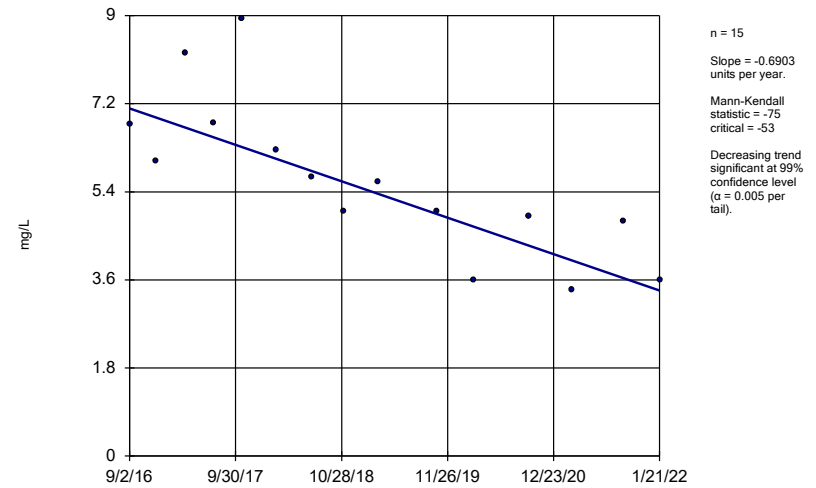
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-2



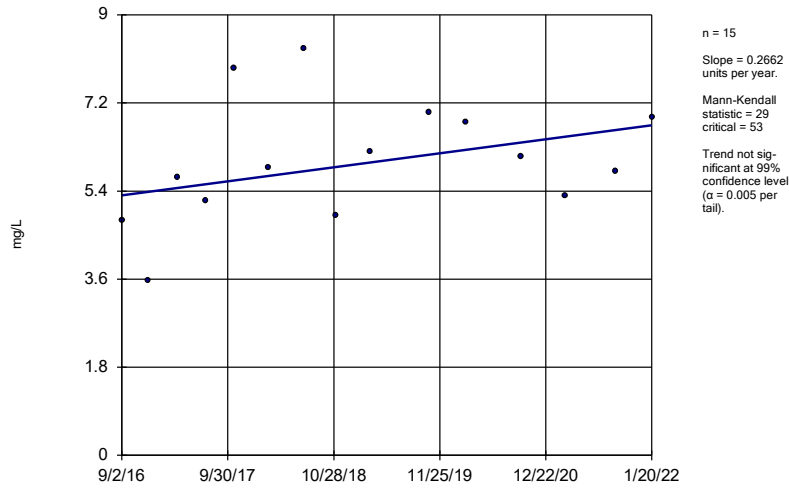
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



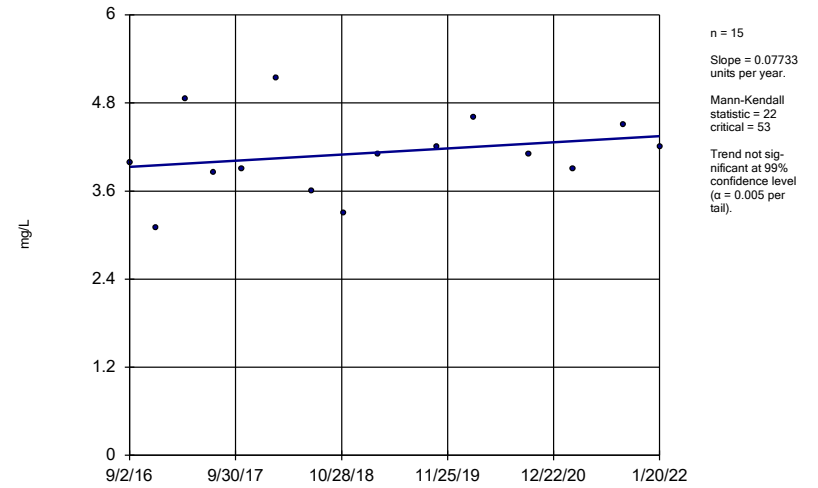
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-21



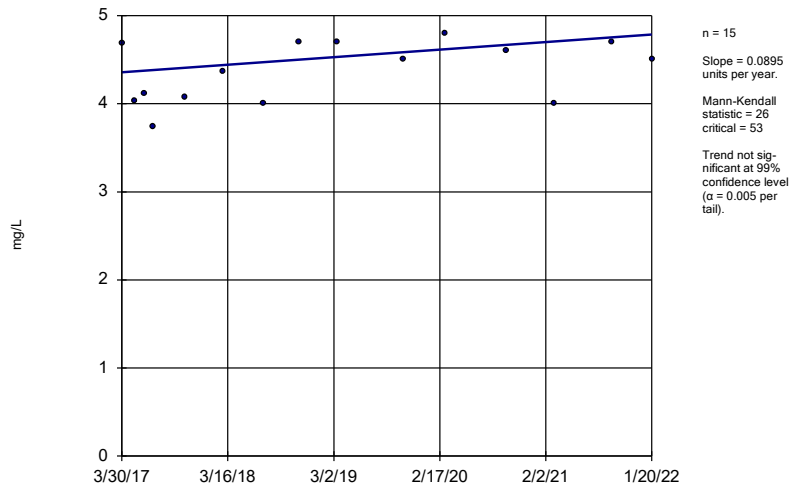
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-22



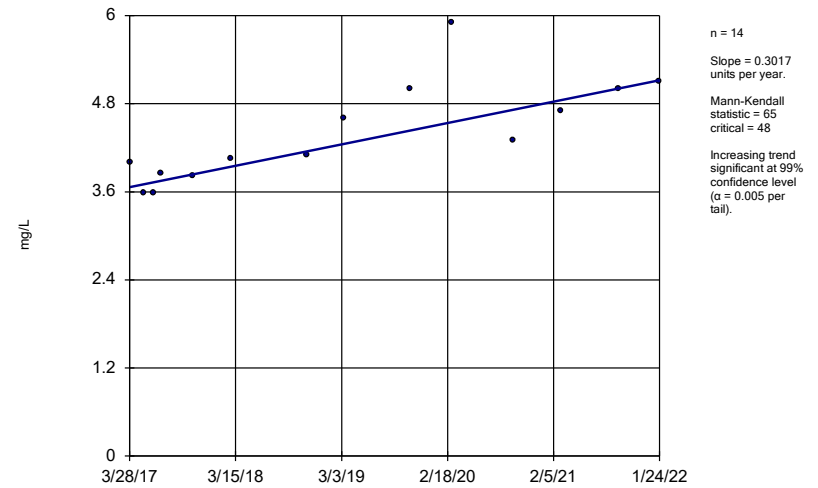
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-23



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

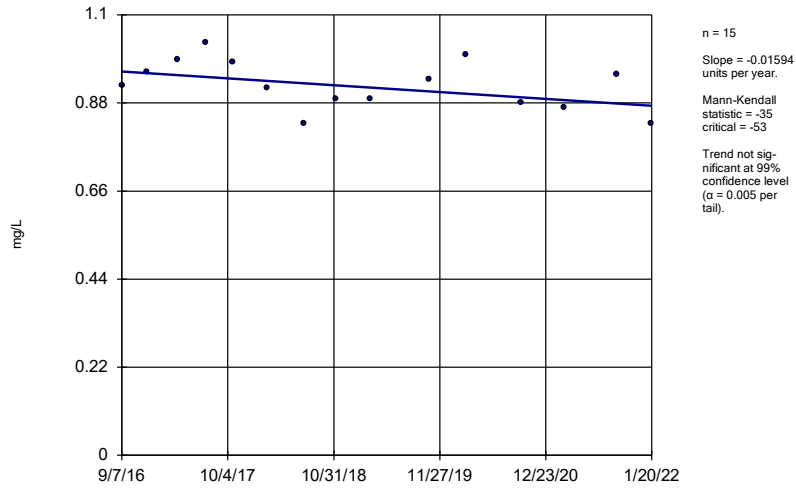
Sen's Slope Estimator DGWC-4



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

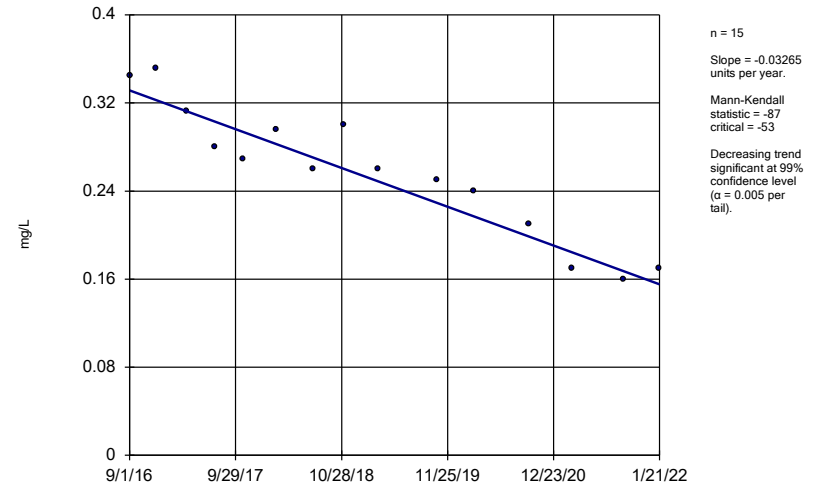
DGWC-42



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

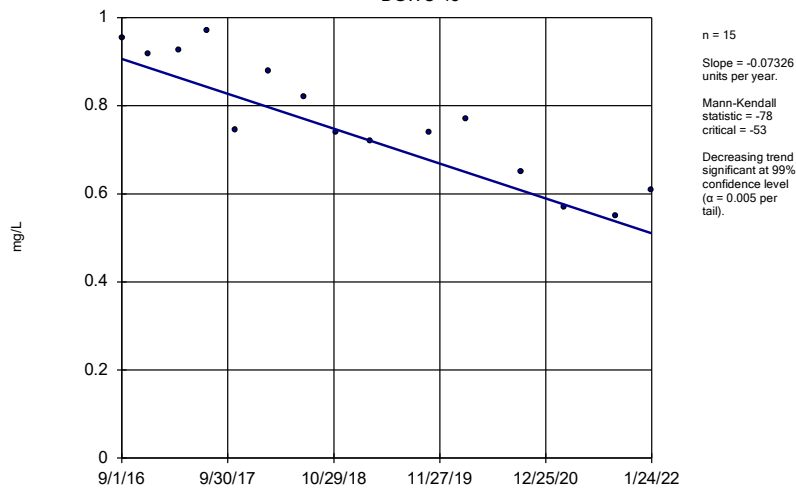
DGWC-47



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

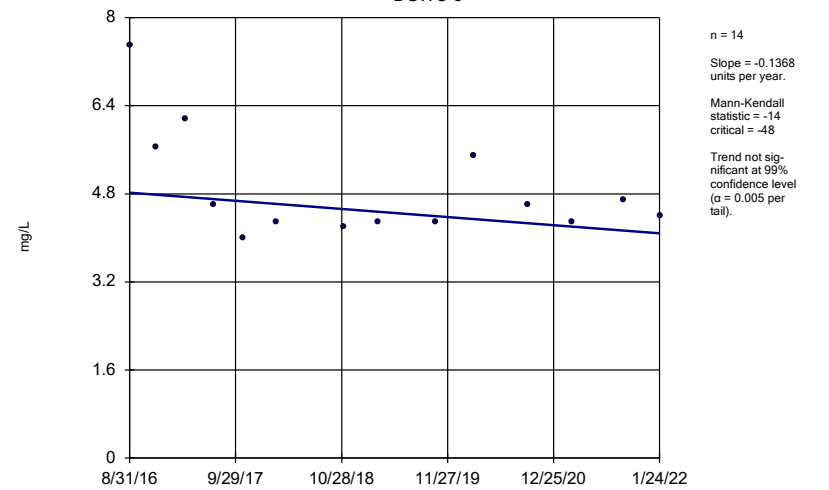
DGWC-48



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

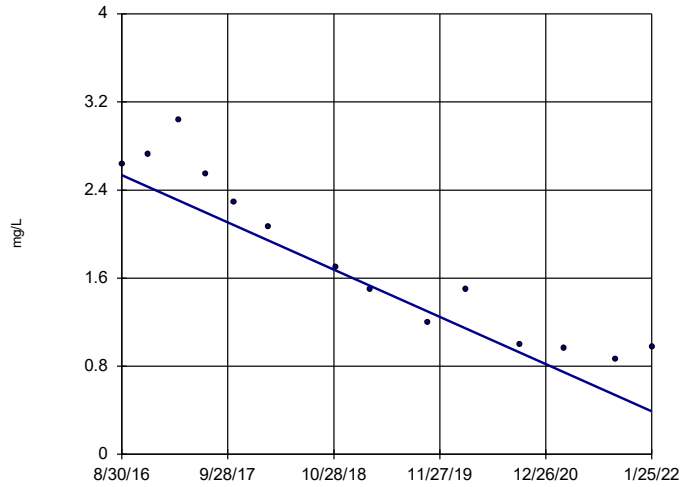
Sen's Slope Estimator

DGWC-5



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

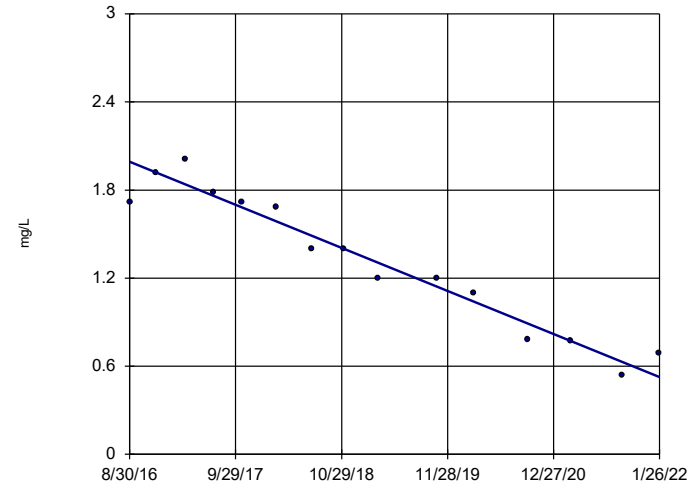
Sen's Slope Estimator
DGWC-8



n = 14
Slope = -0.3967
units per year.
Mann-Kendall
statistic = -78
critical = -48
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

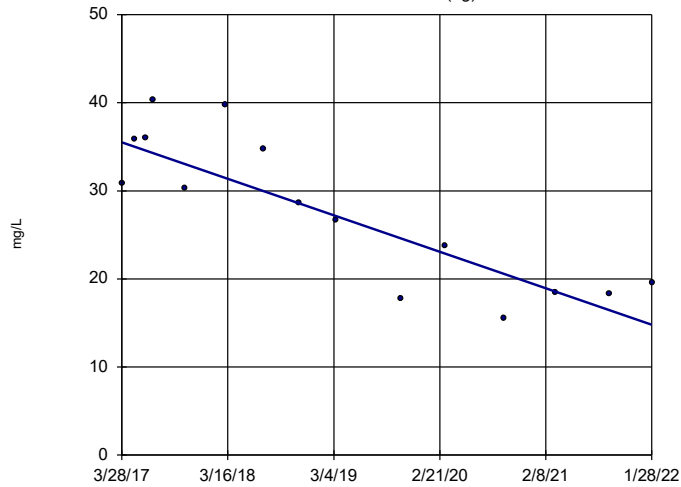
Sen's Slope Estimator
DGWC-9



n = 15
Slope = -0.2711
units per year.
Mann-Kendall
statistic = -92
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

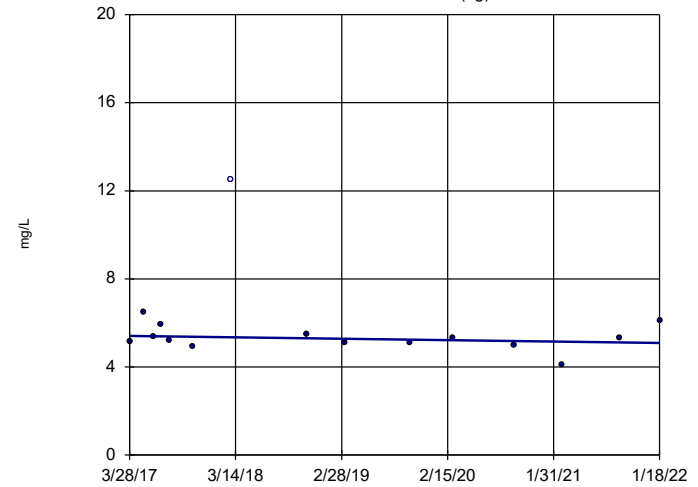
Sen's Slope Estimator
DGWA-53 (bg)



n = 15
Slope = -4.275
units per year.
Mann-Kendall
statistic = -63
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

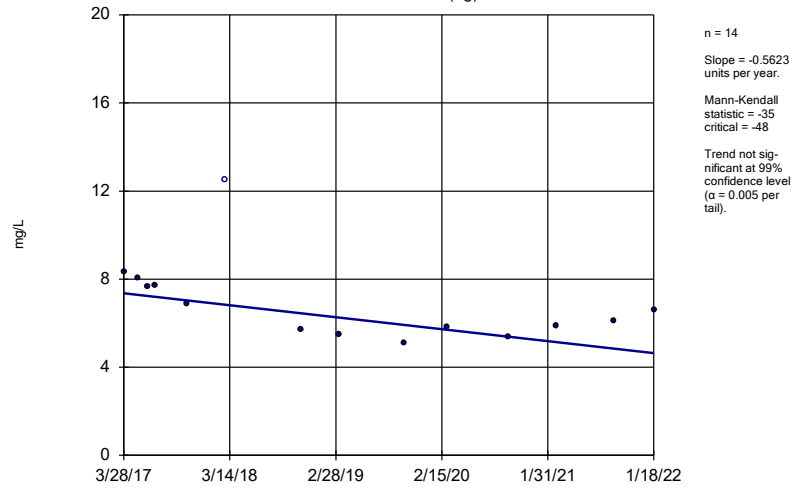
Sen's Slope Estimator
DGWA-70A (bg)



n = 15
Slope = -0.06518
units per year.
Mann-Kendall
statistic = -19
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

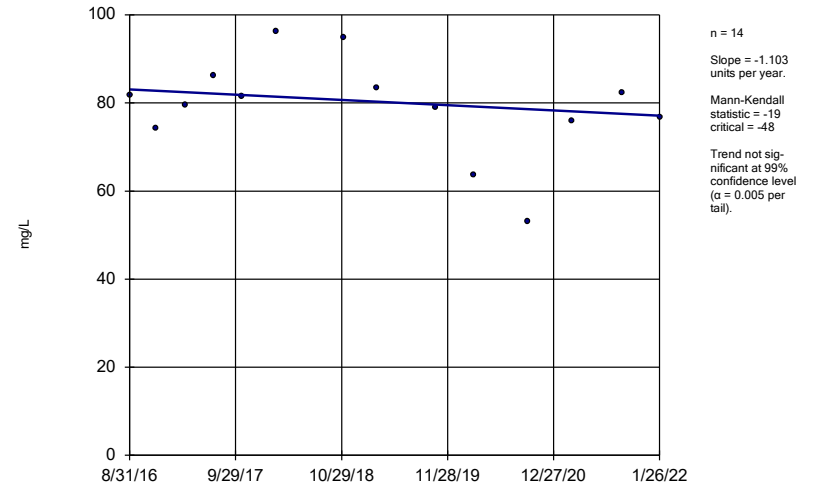
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



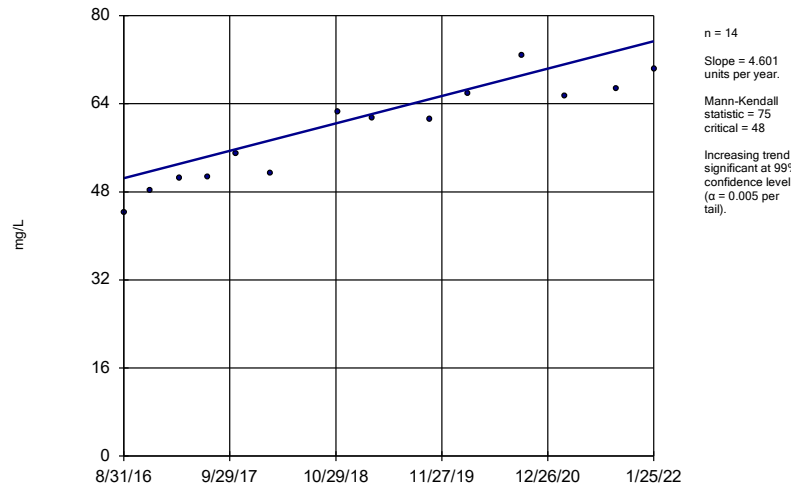
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



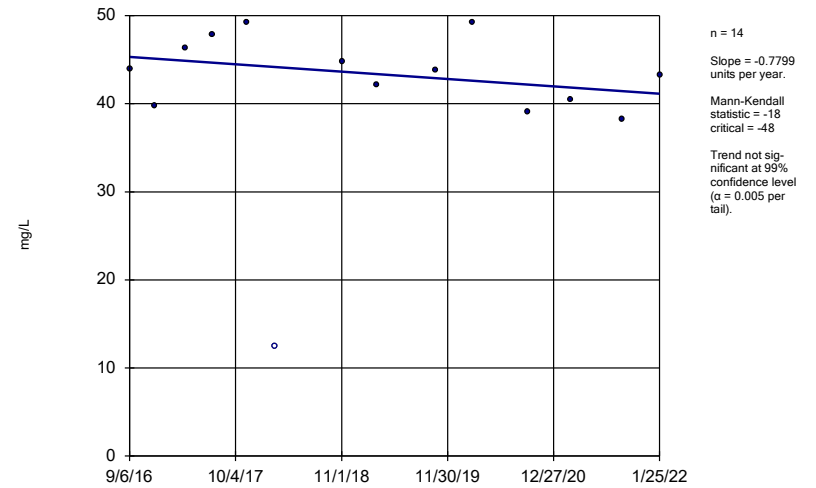
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-11



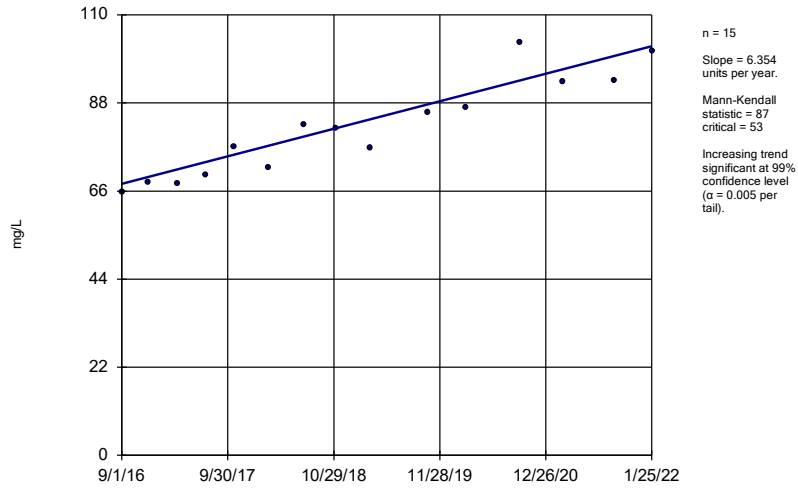
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-13



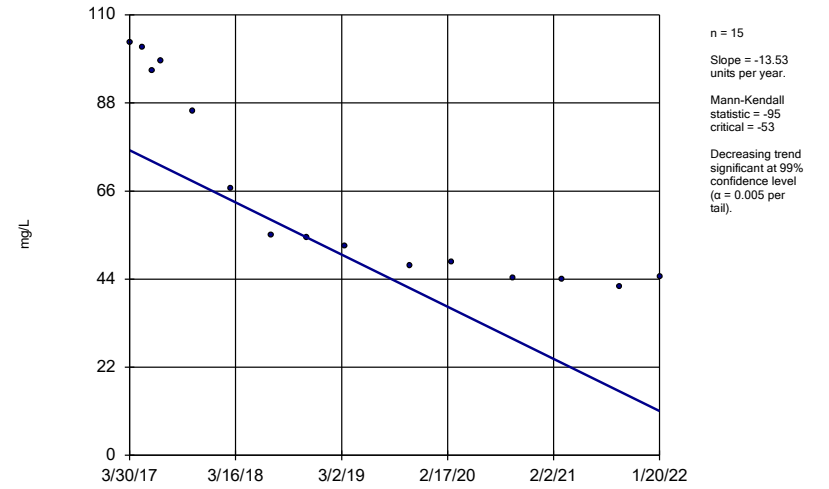
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



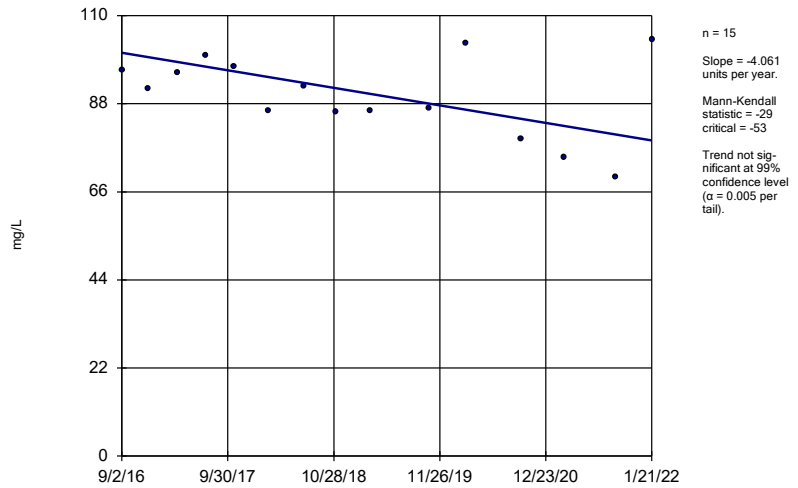
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-2



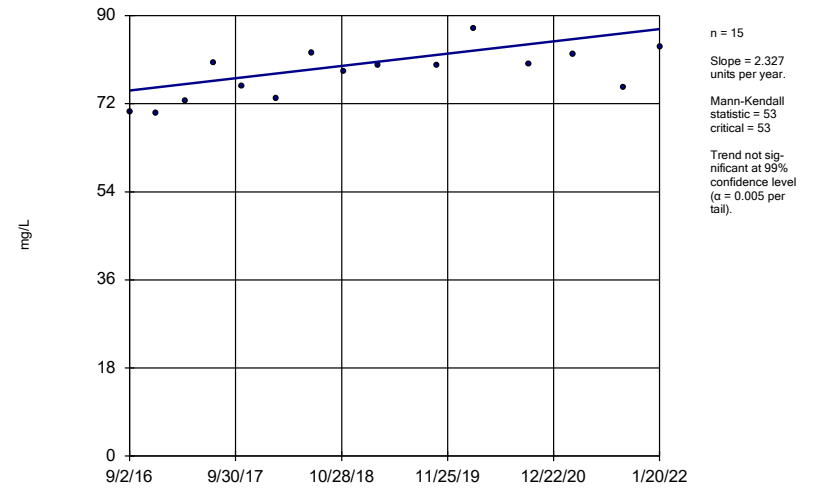
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



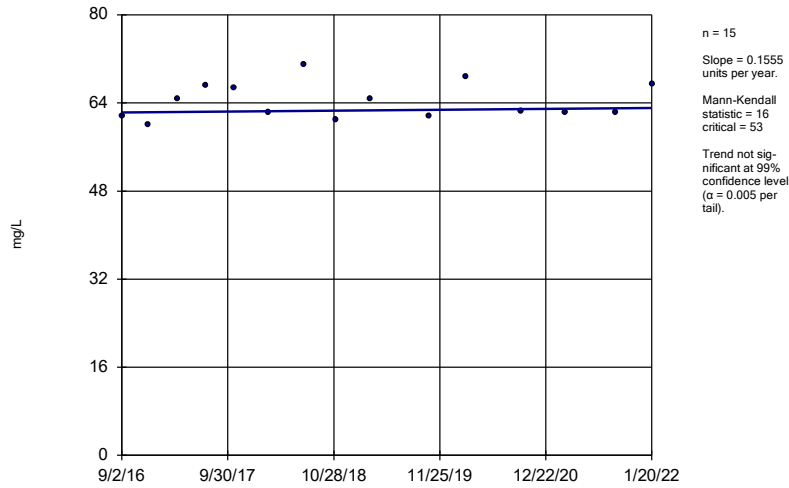
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



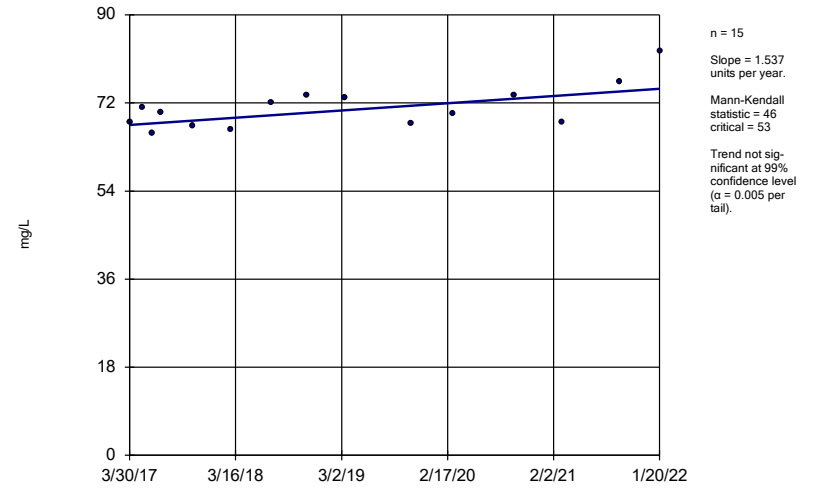
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



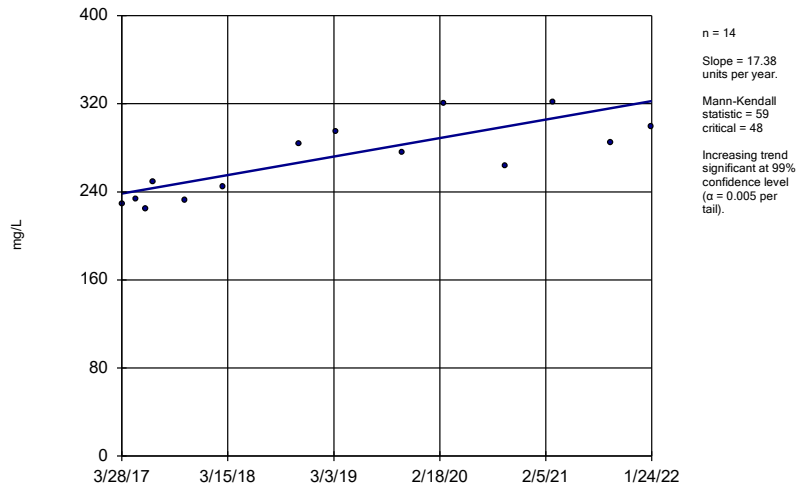
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



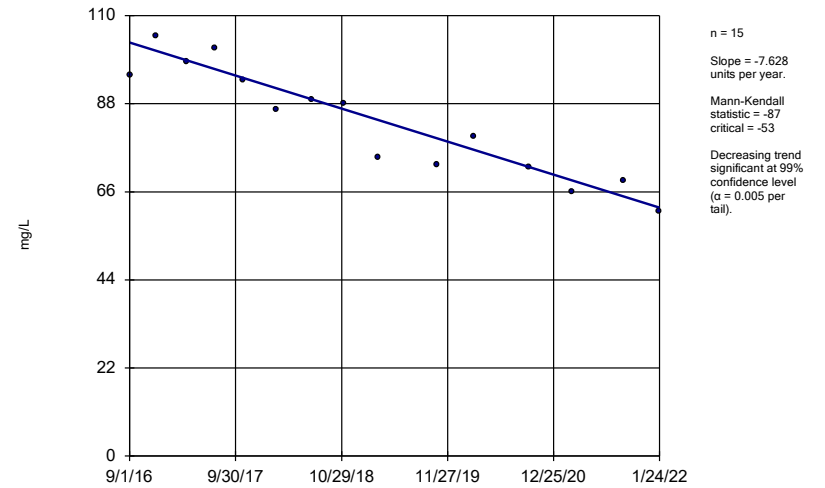
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

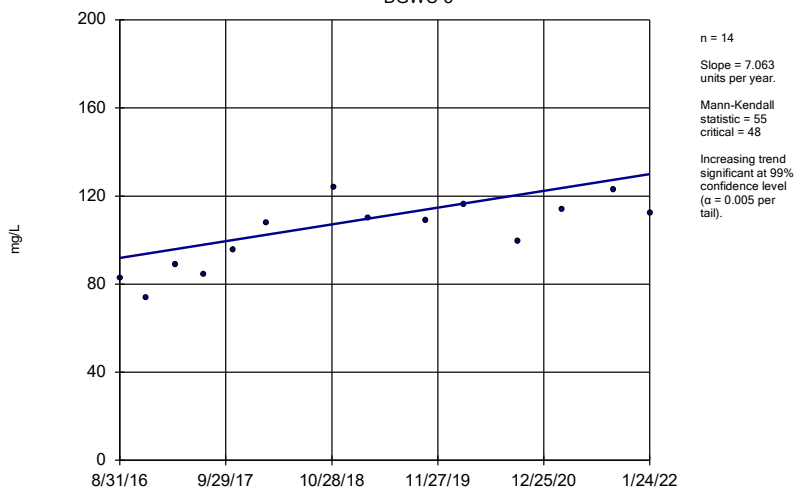
Sen's Slope Estimator
DGWC-48



Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

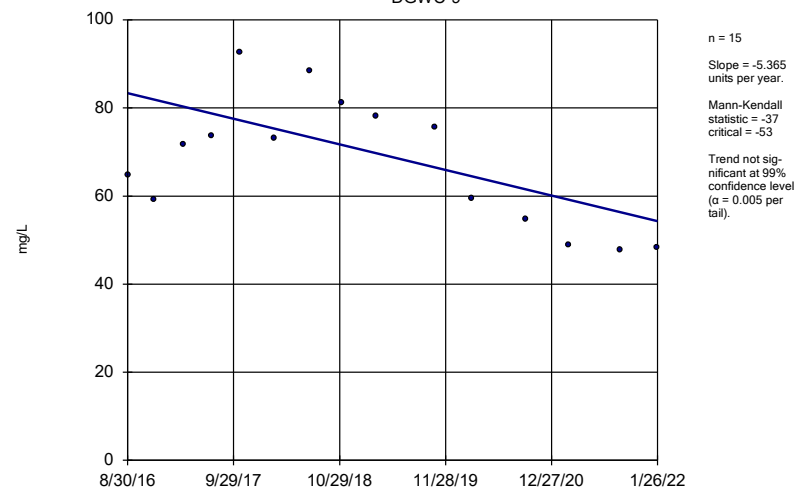
DGWC-5



Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

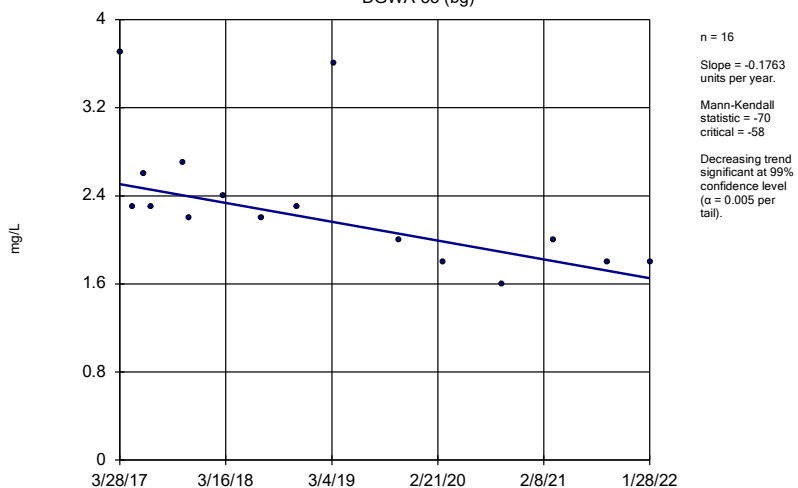
DGWC-9



Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

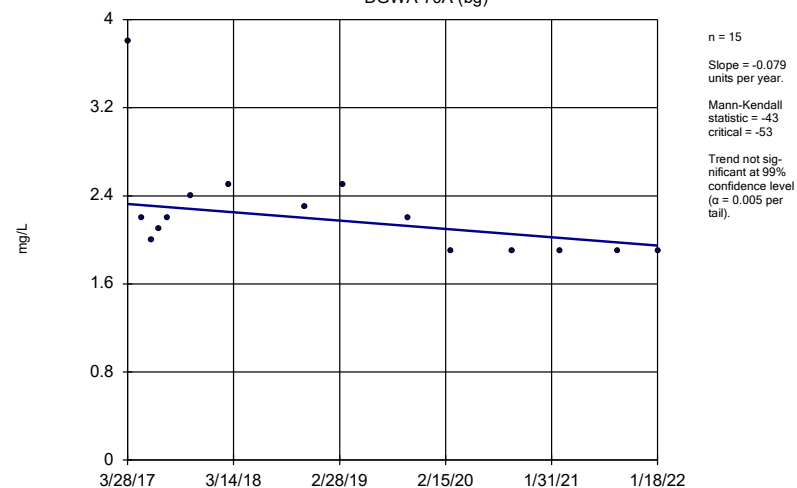
DGWA-53 (bg)



Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

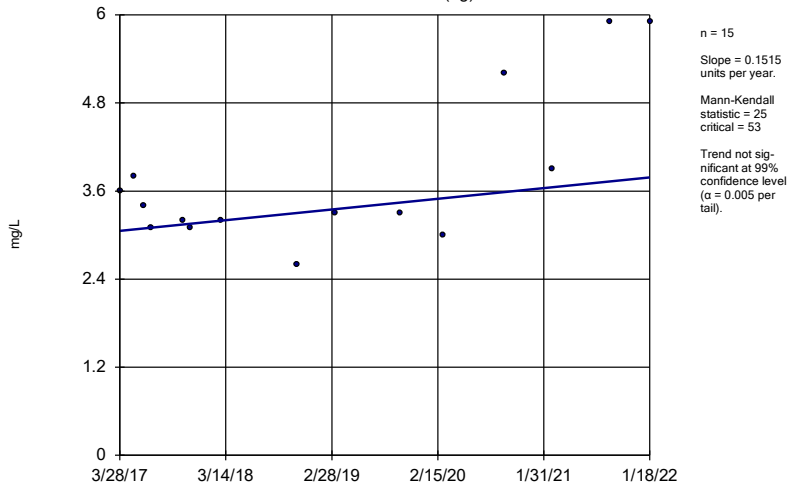
Sen's Slope Estimator

DGWA-70A (bg)



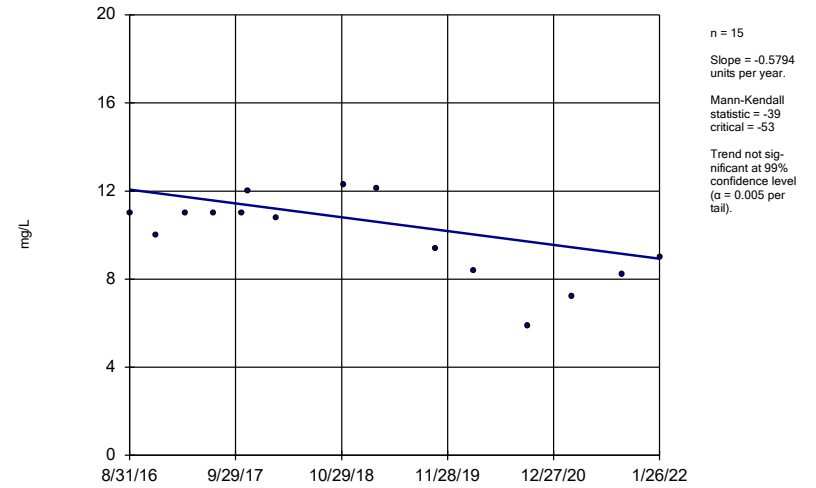
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



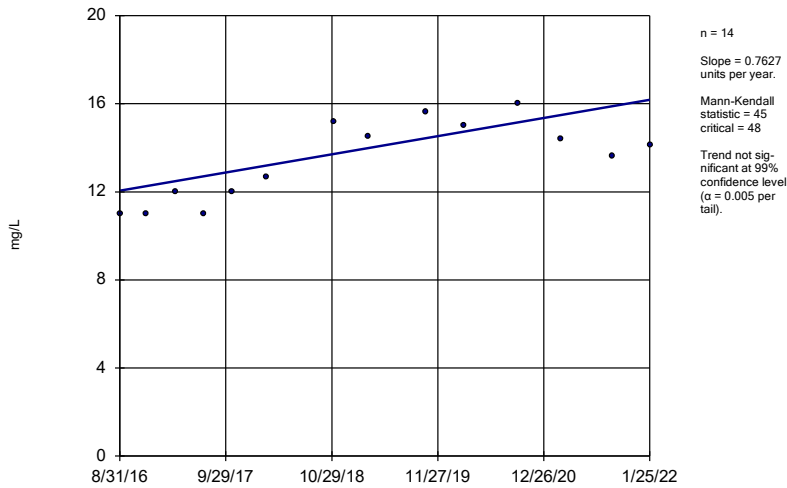
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



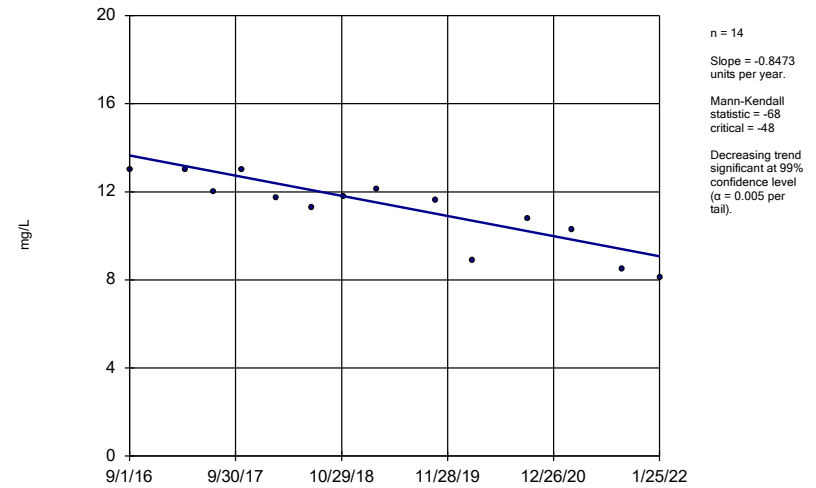
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-11



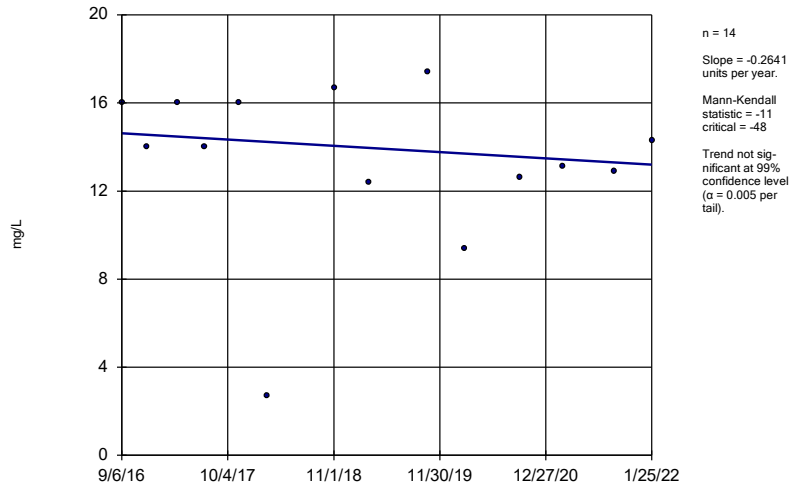
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-12



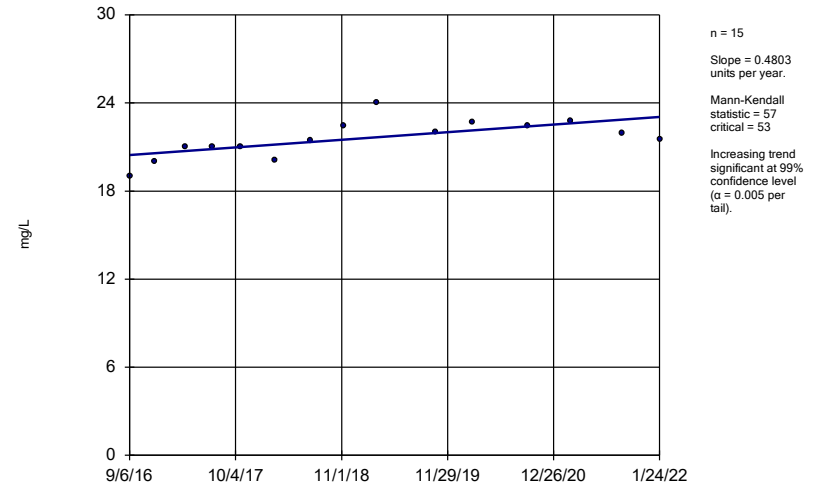
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-13



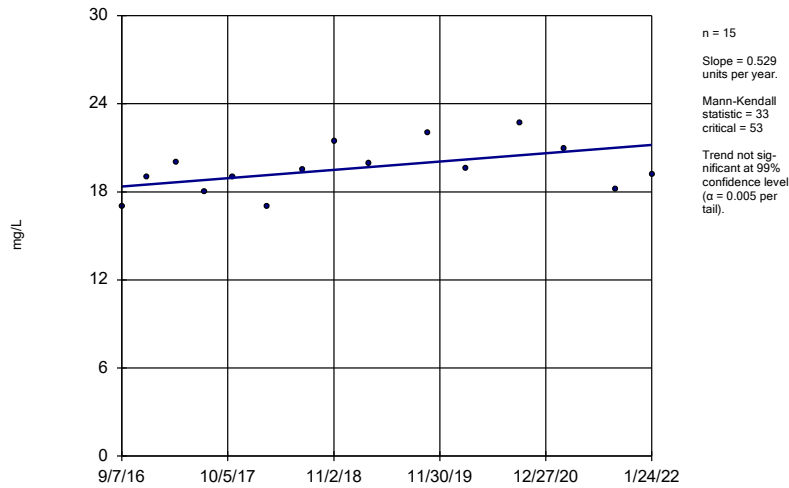
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-15



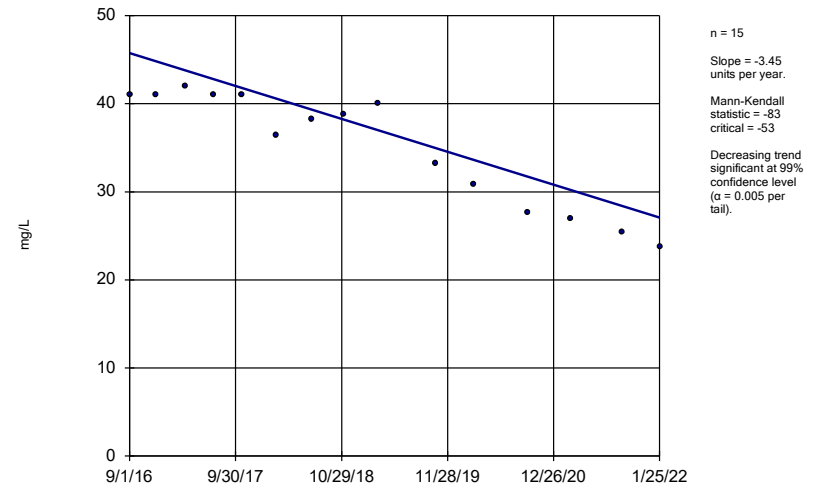
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



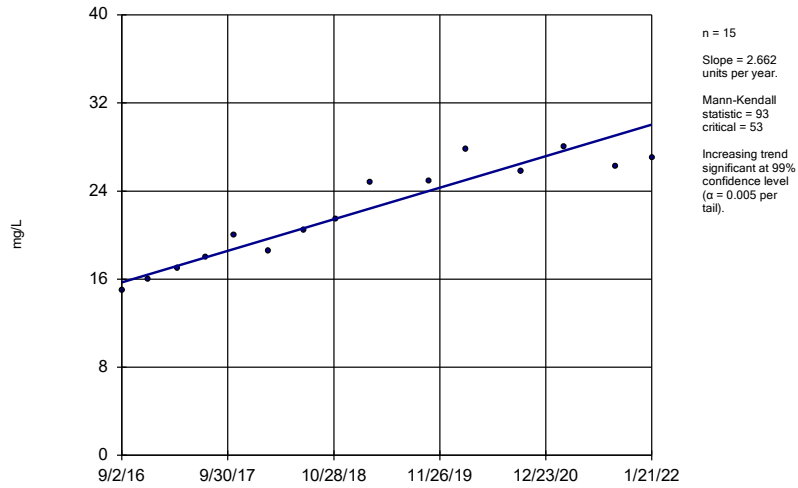
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



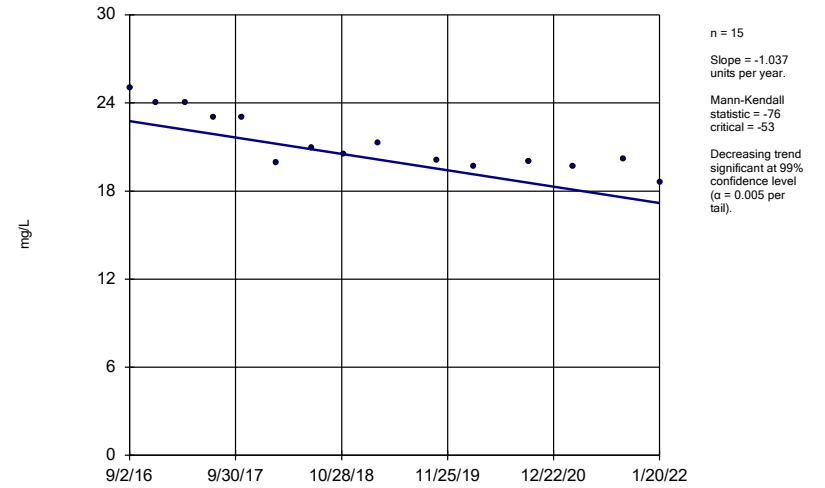
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



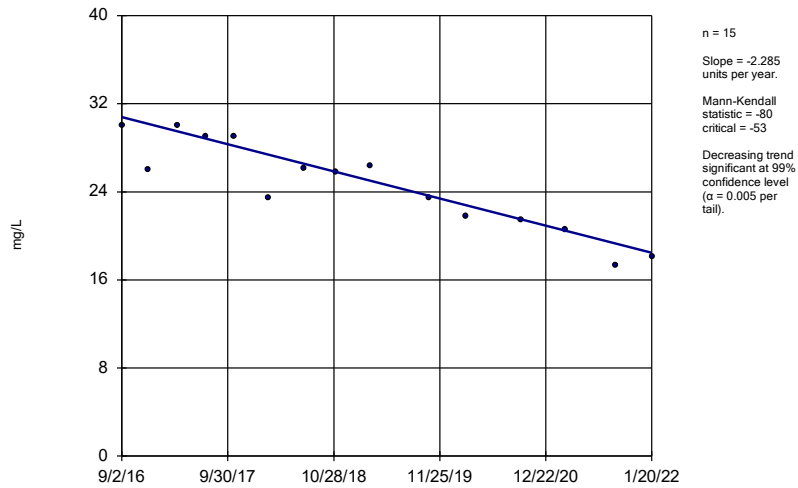
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



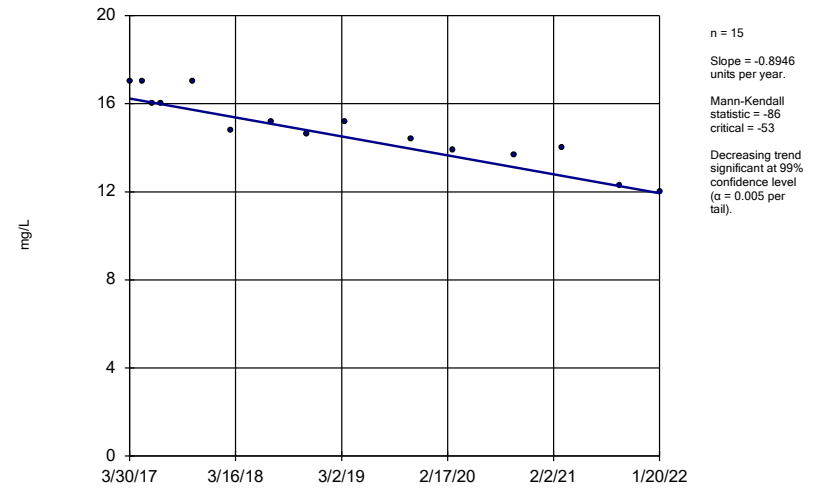
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



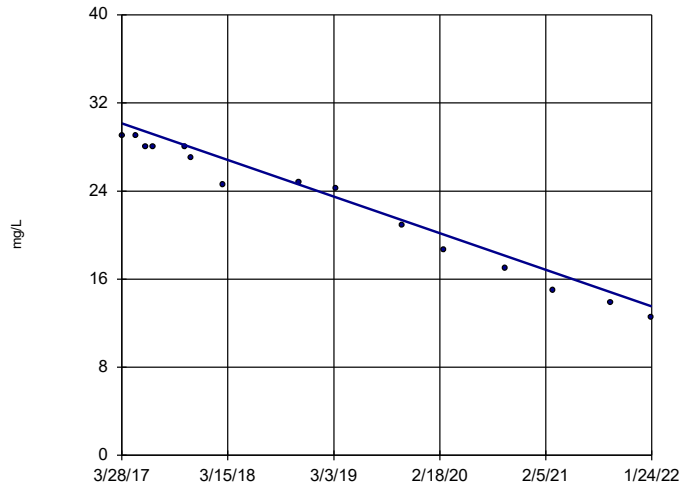
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



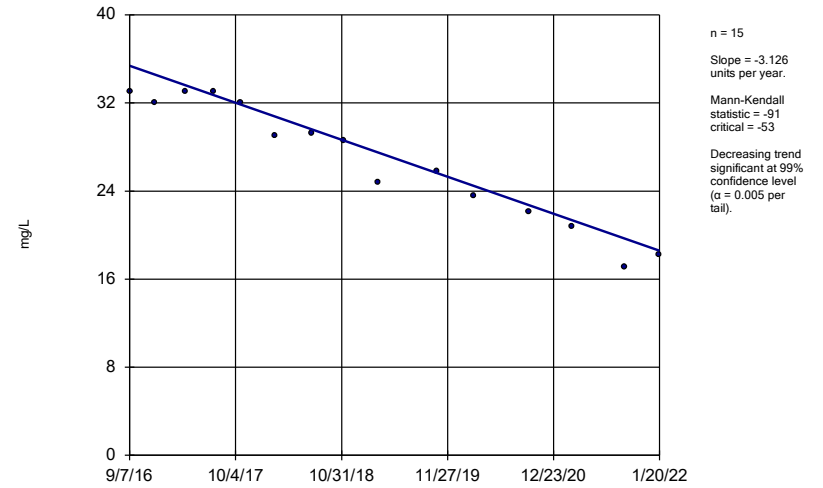
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-4



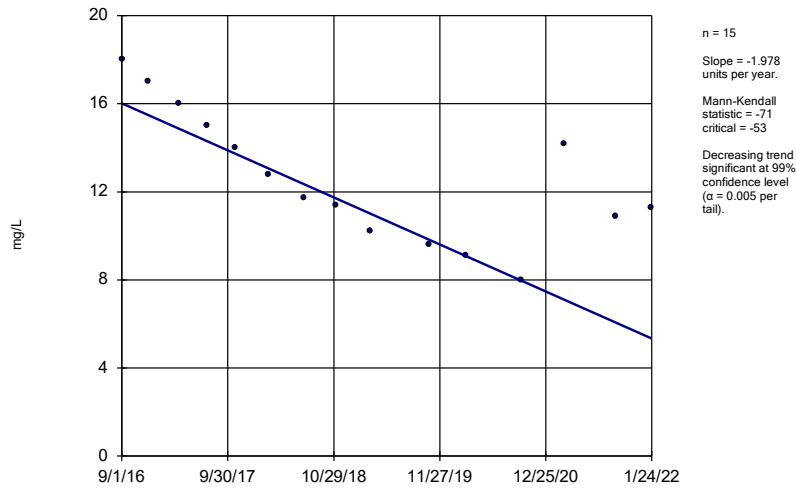
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-42



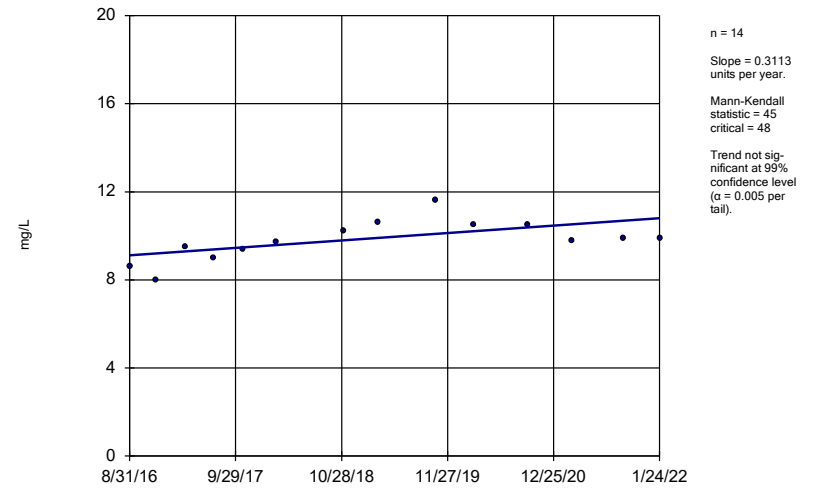
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-48



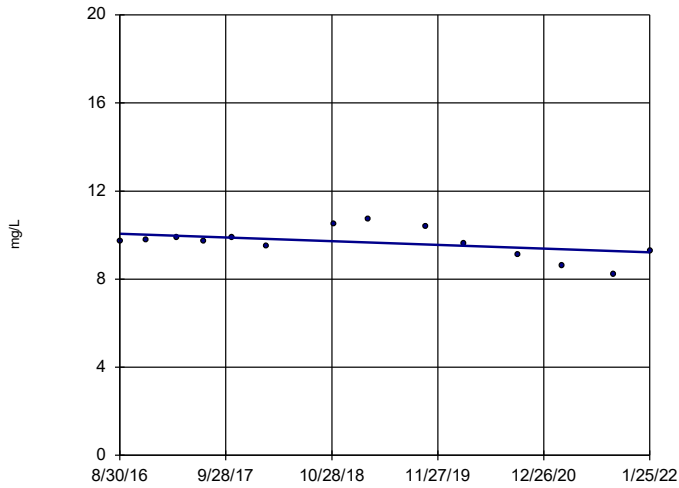
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-5



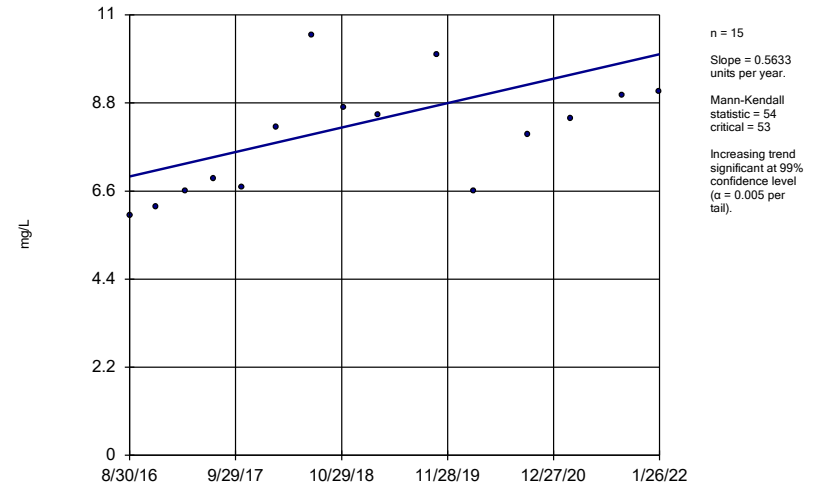
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-8



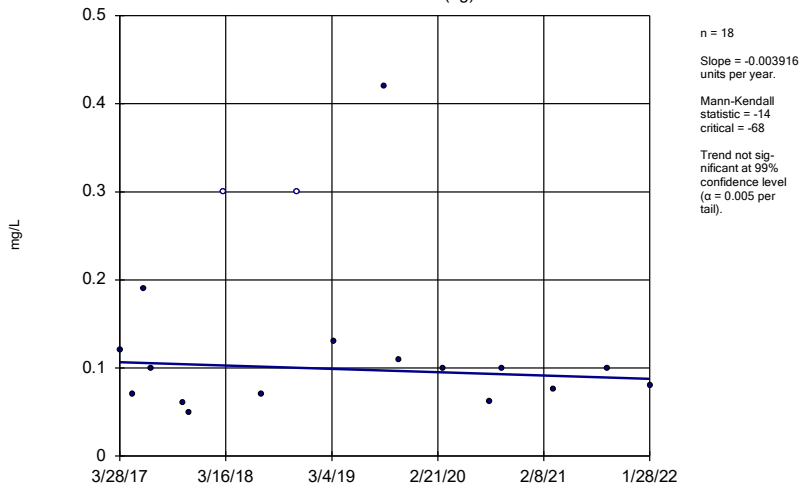
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



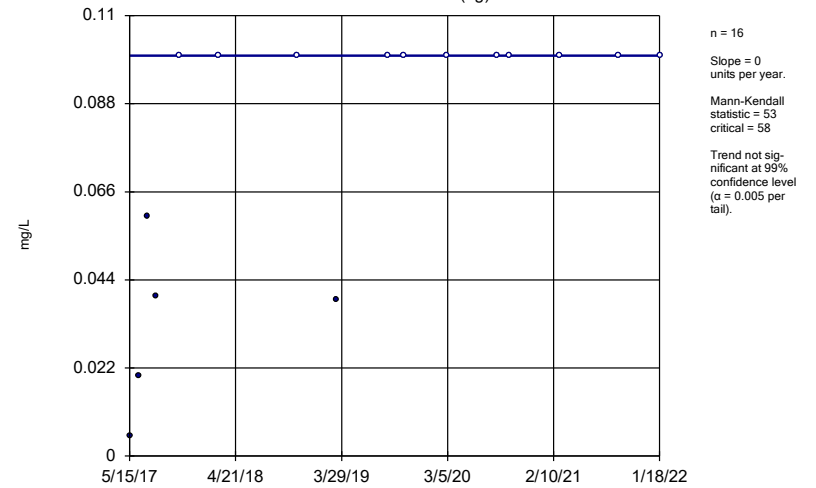
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



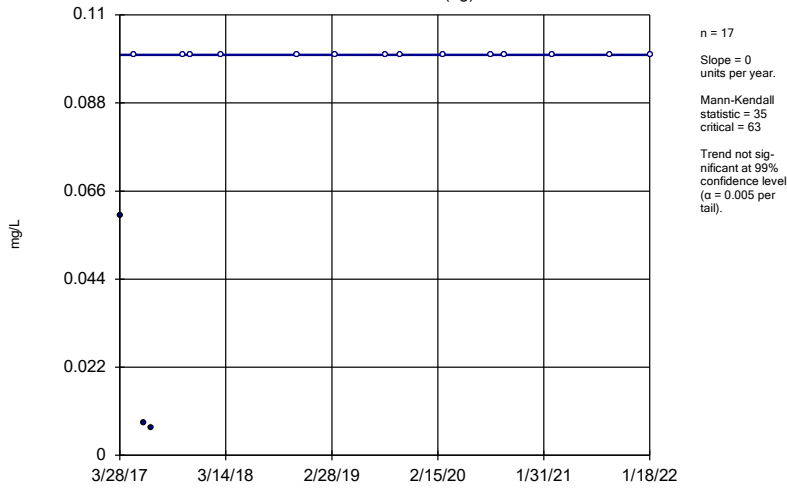
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



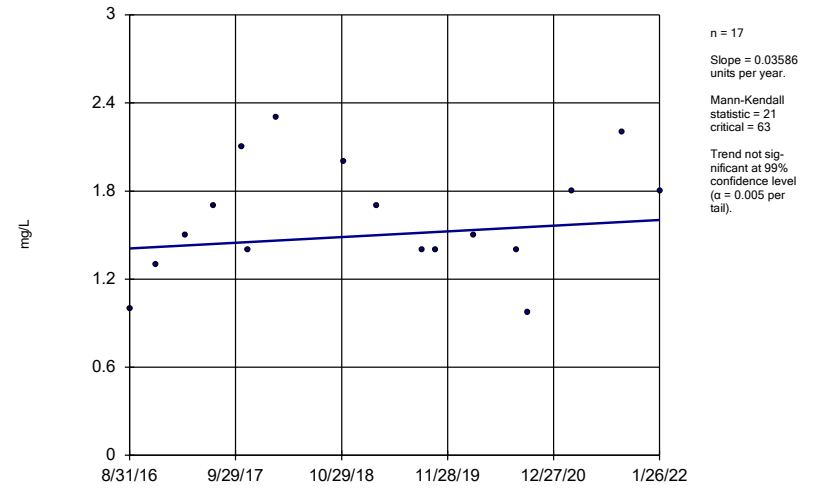
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



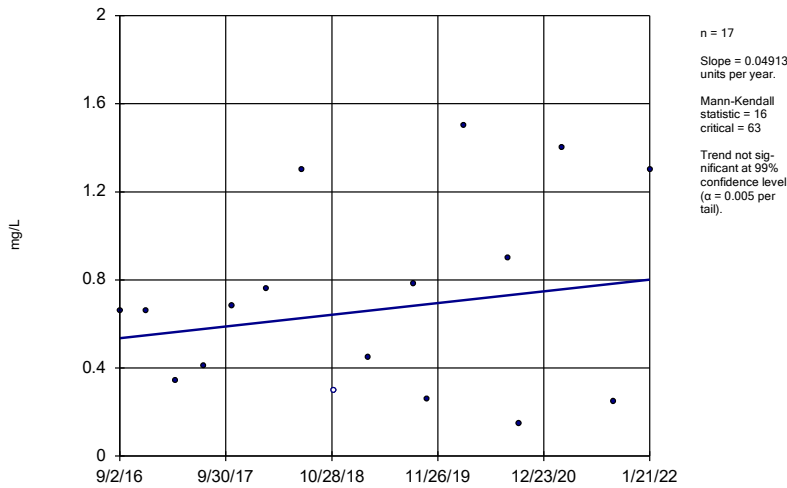
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



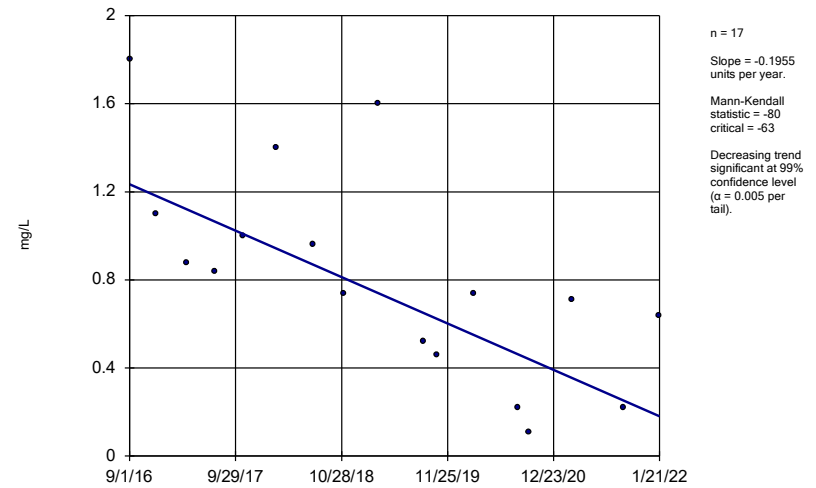
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-20



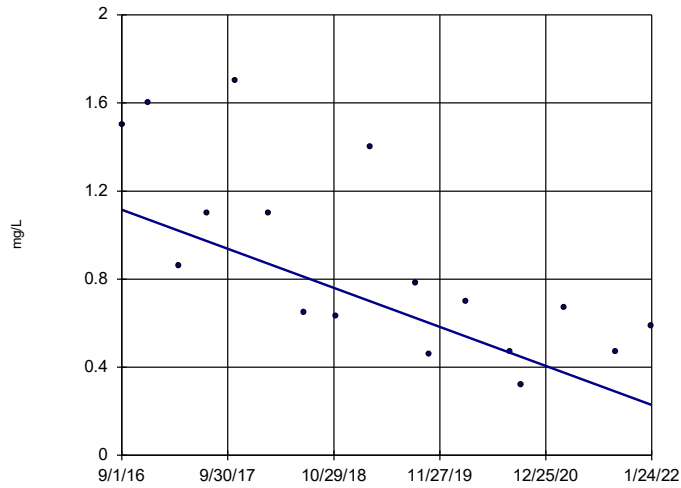
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-47



Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

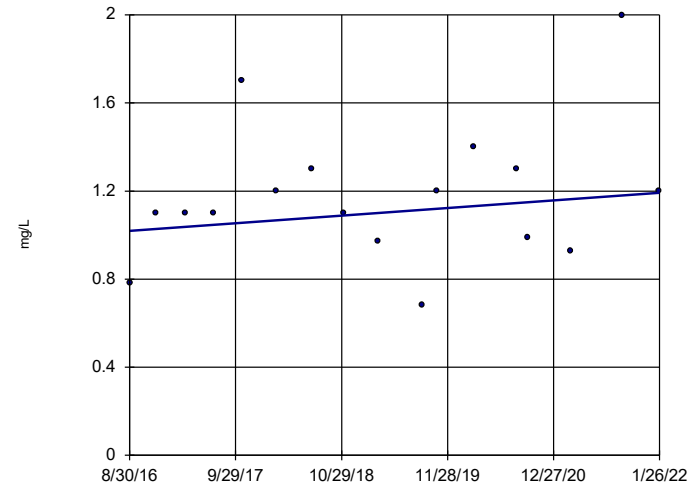
Sen's Slope Estimator
DGWC-48



n = 17
Slope = -0.1642
units per year.
Mann-Kendall
statistic = -76
critical = -63
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

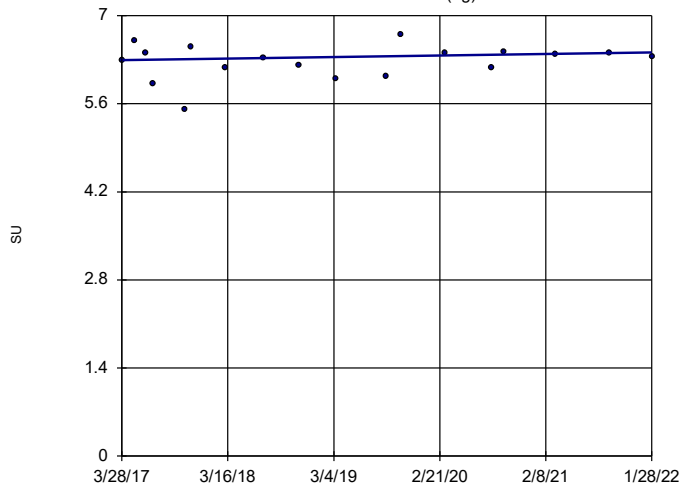
Sen's Slope Estimator
DGWC-9



n = 17
Slope = 0.03215
units per year.
Mann-Kendall
statistic = 20
critical = 63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

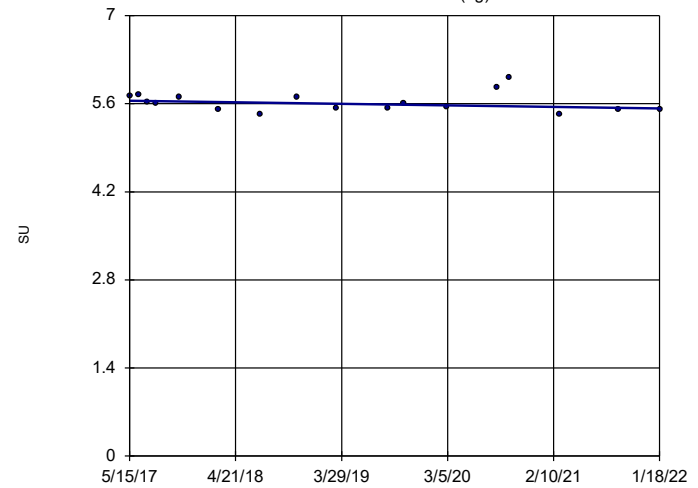
Sen's Slope Estimator
DGWA-53 (bg)



n = 18
Slope = 0.02528
units per year.
Mann-Kendall
statistic = 14
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

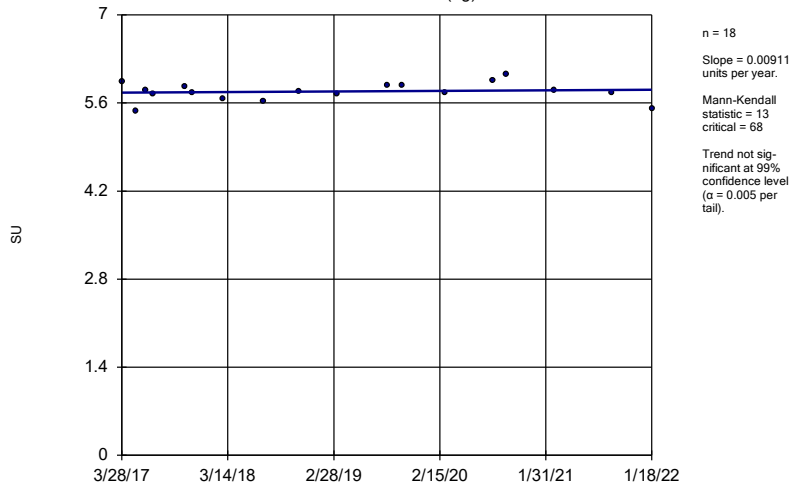
Sen's Slope Estimator
DGWA-70A (bg)



n = 17
Slope = -0.02535
units per year.
Mann-Kendall
statistic = -32
critical = -63
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

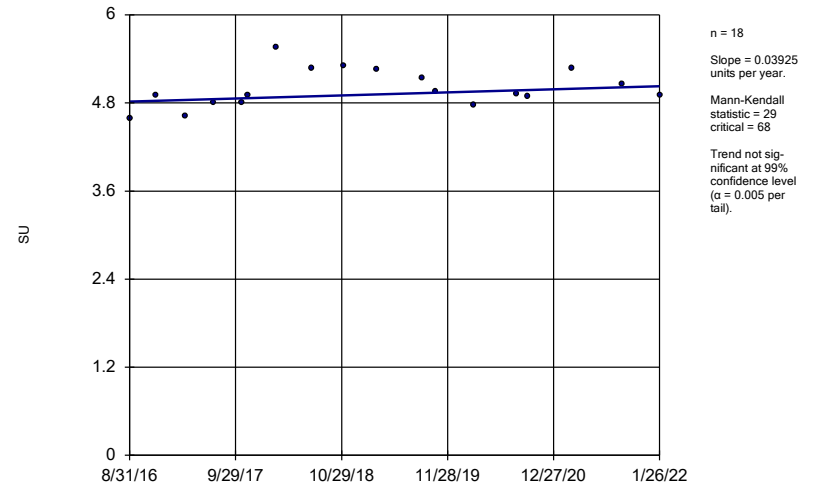
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



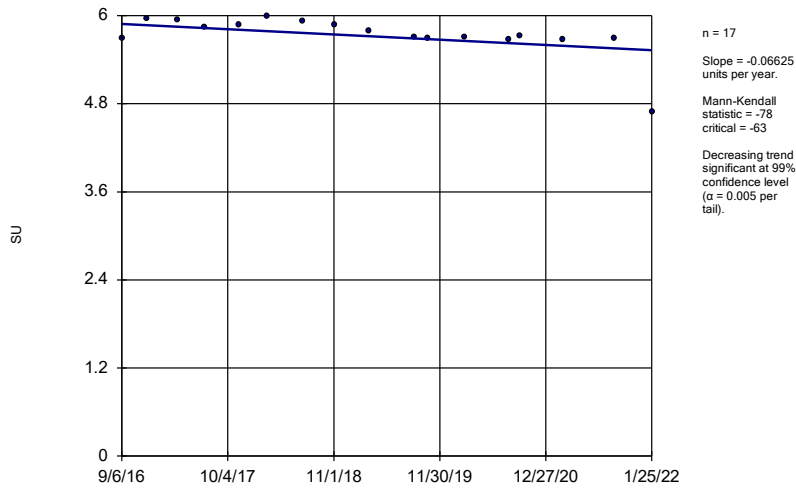
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



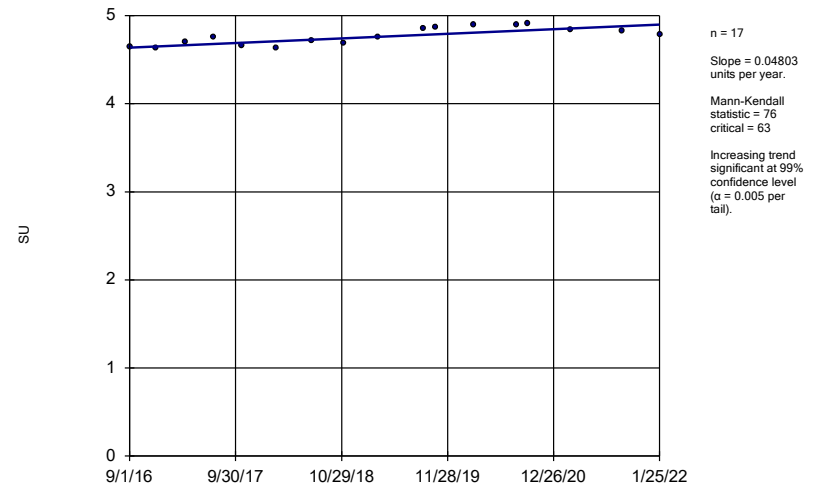
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-13



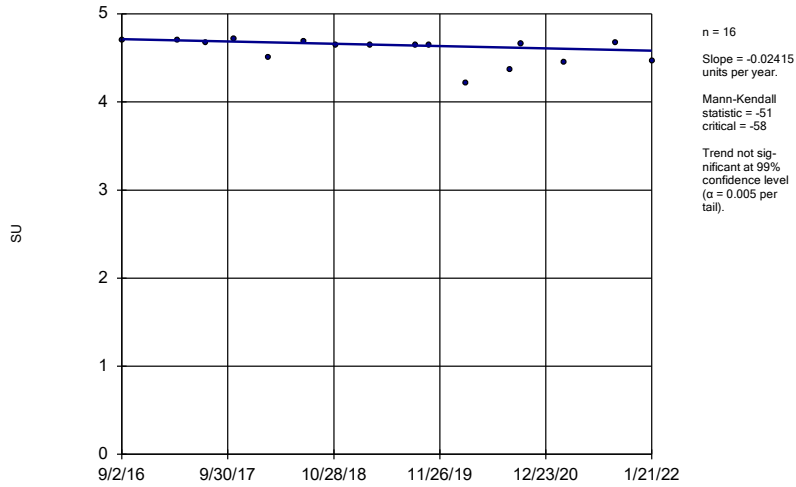
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



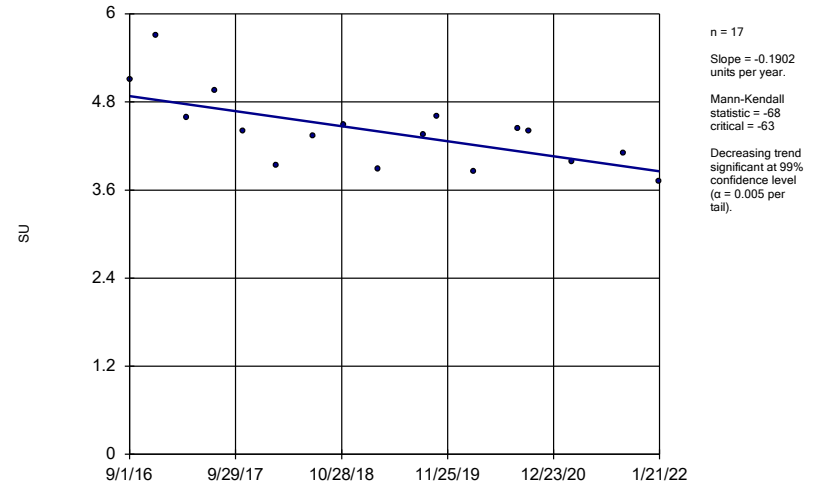
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



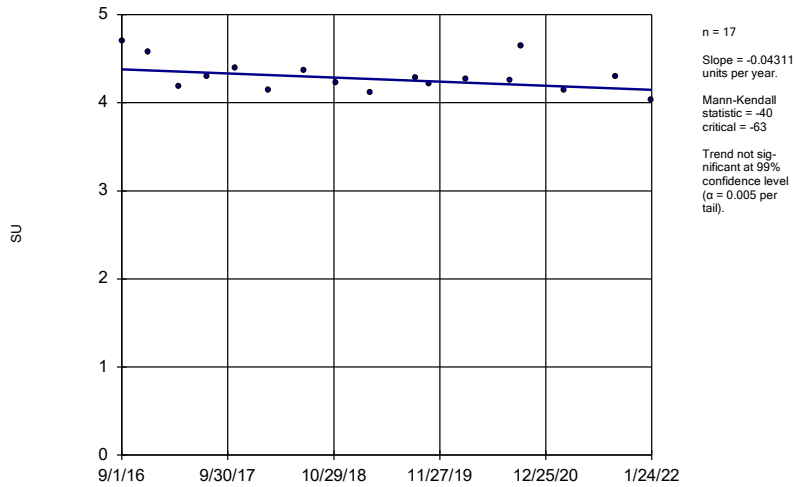
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



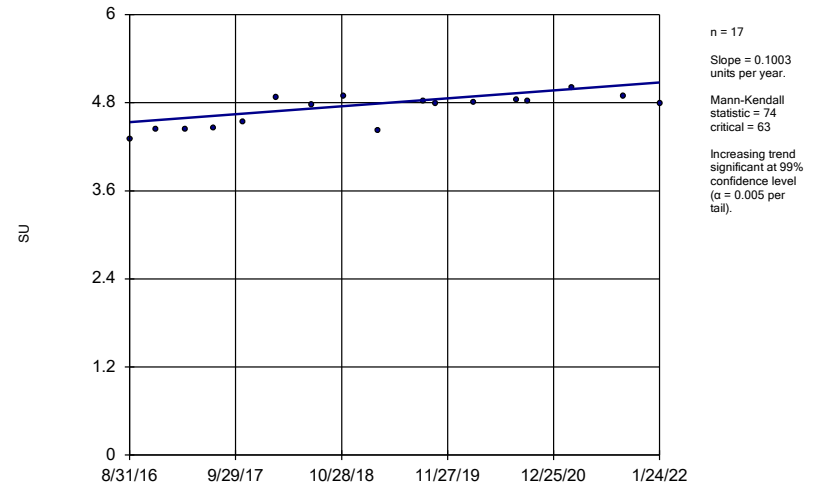
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



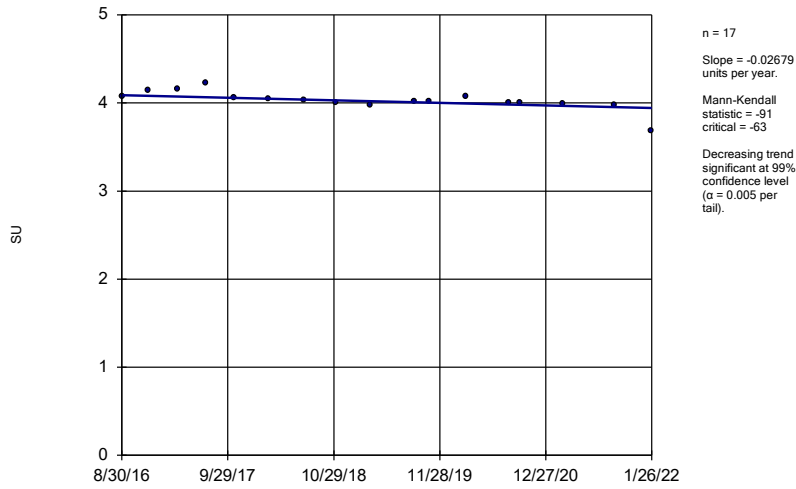
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



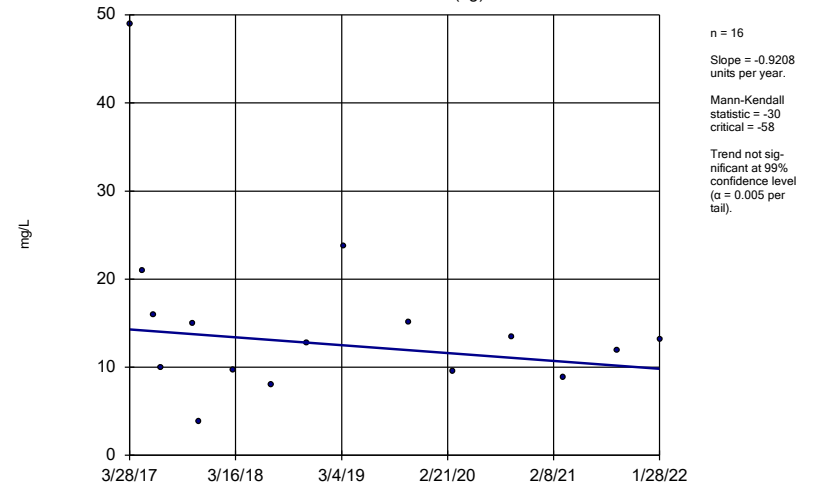
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



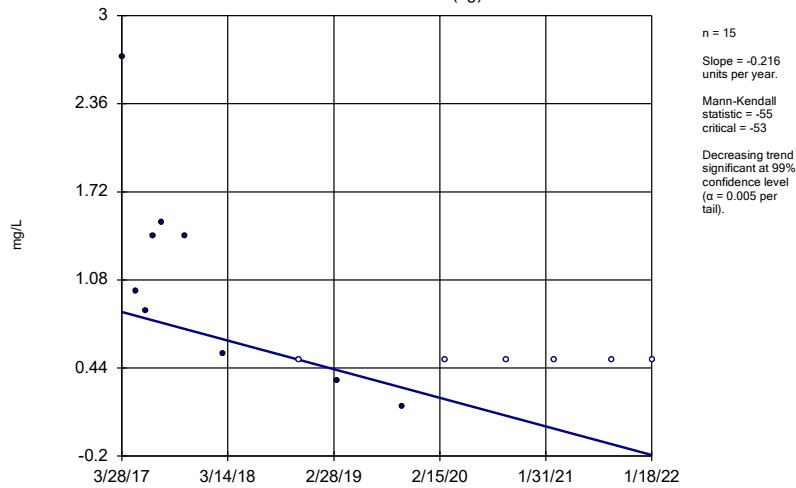
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



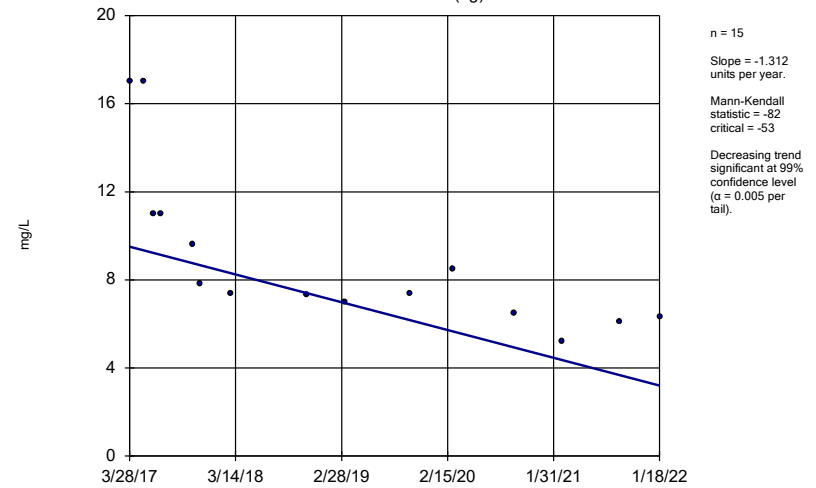
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



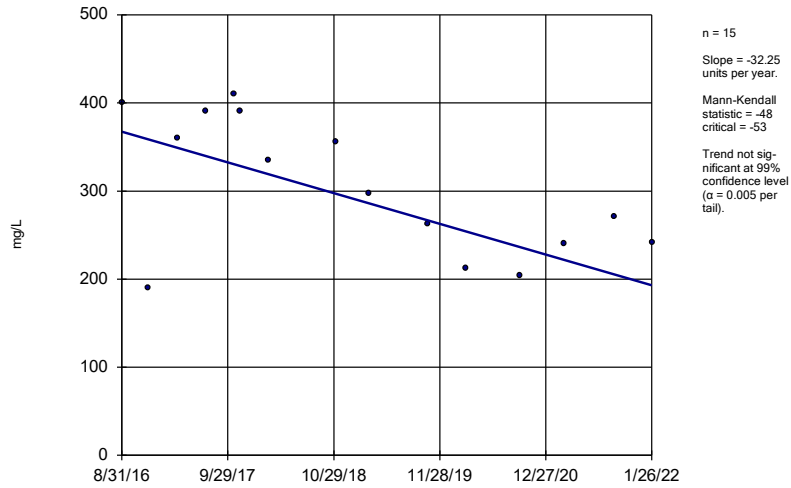
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



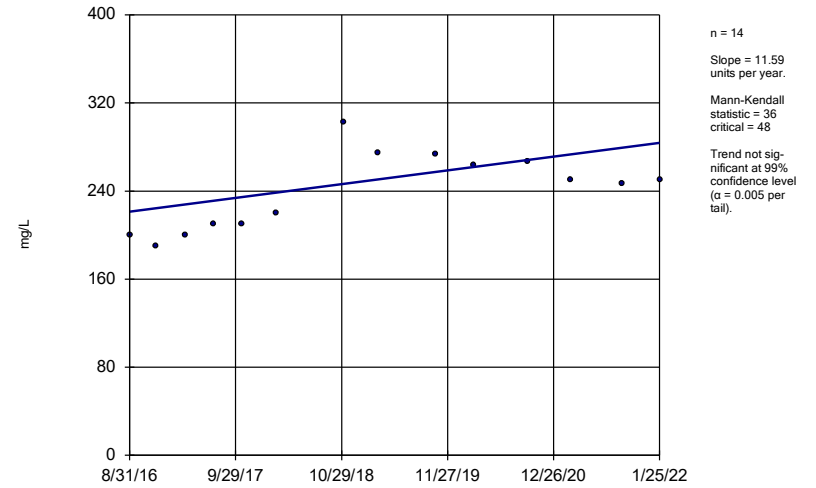
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



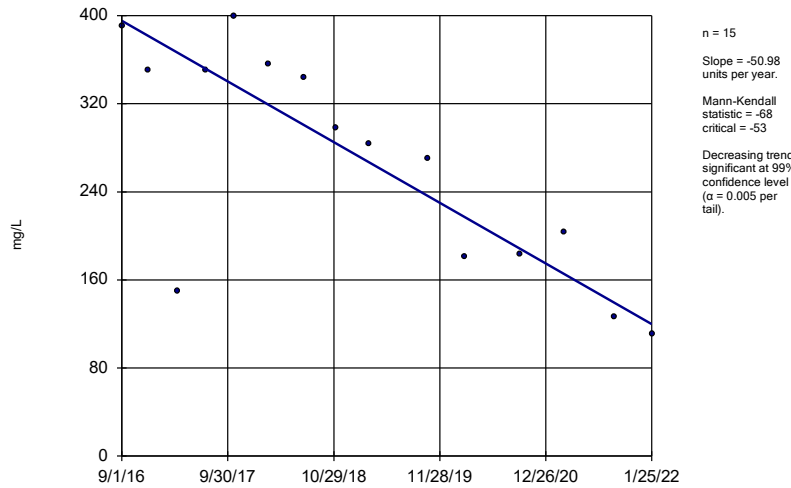
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-11



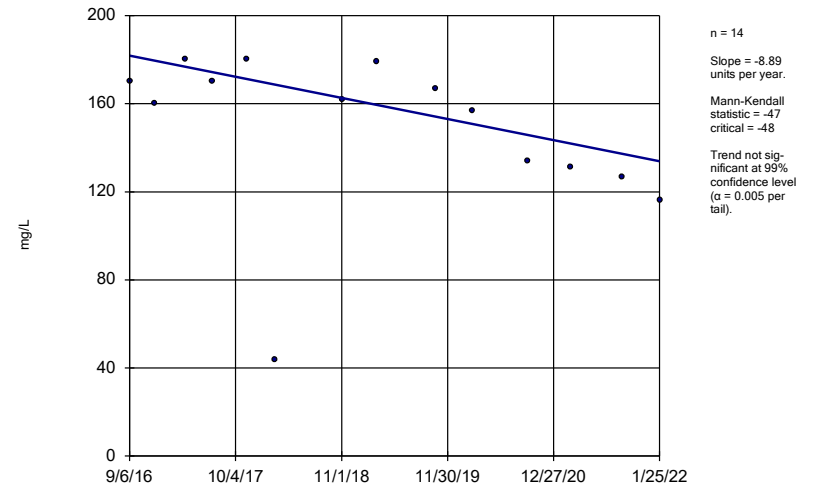
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-12



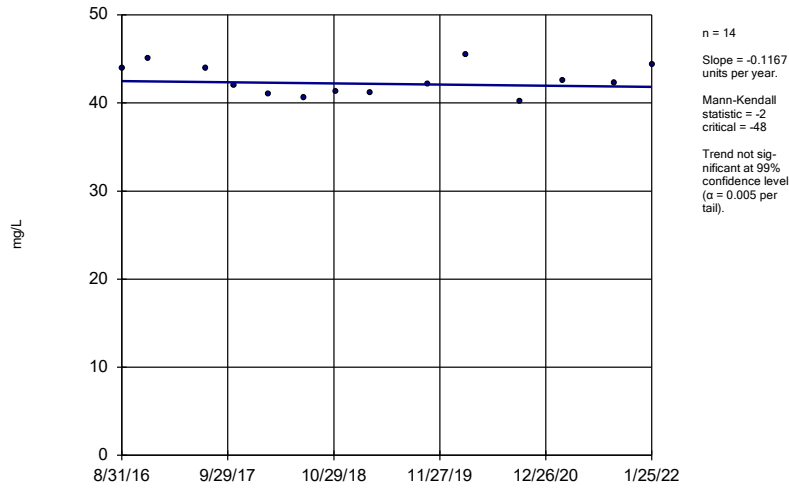
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-13



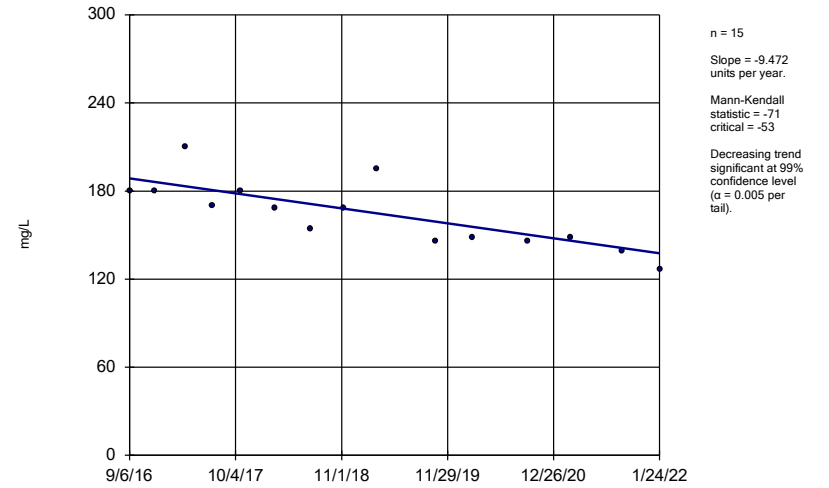
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-14



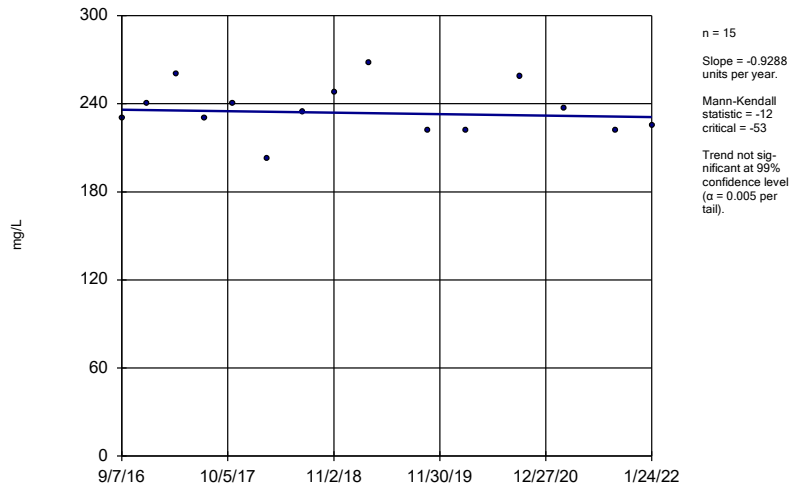
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-15



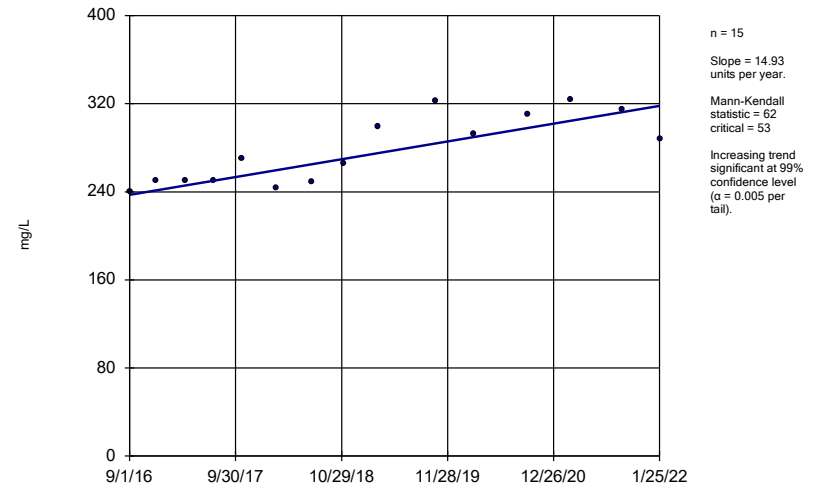
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

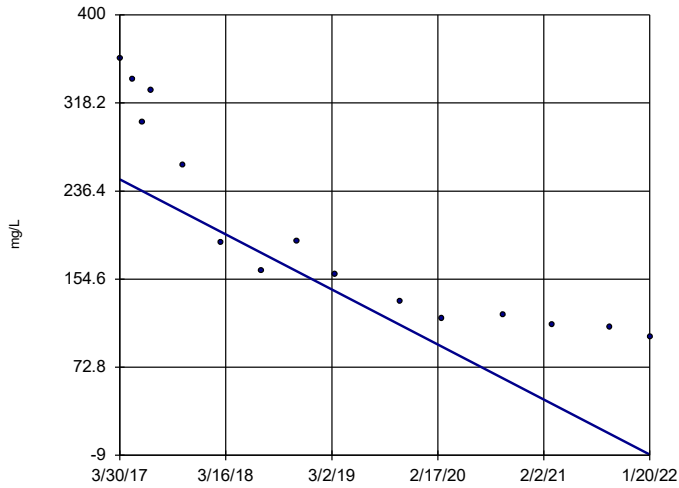
Sen's Slope Estimator
DGWC-19



Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-2

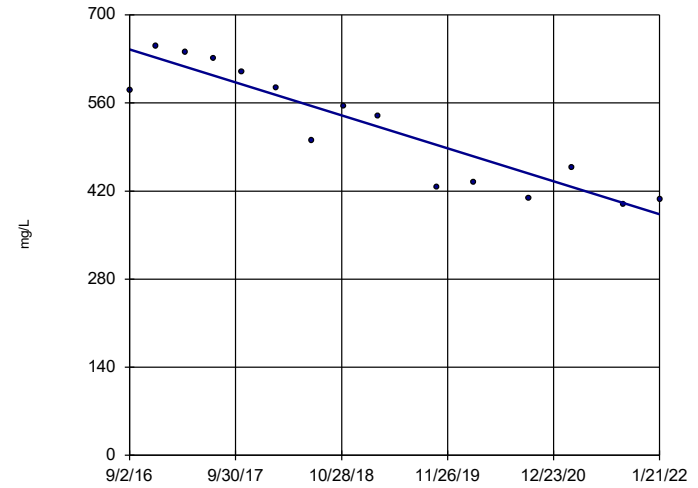


n = 15
Slope = -53.07
units per year.
Mann-Kendall
statistic = -97
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-20

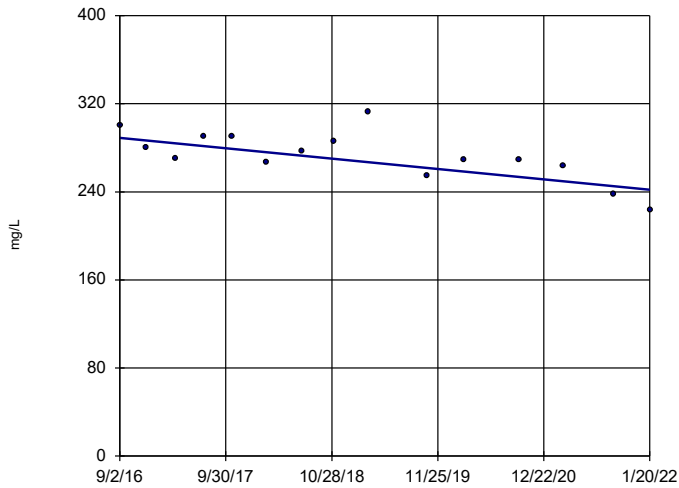


n = 15
Slope = -48.56
units per year.
Mann-Kendall
statistic = -81
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-21

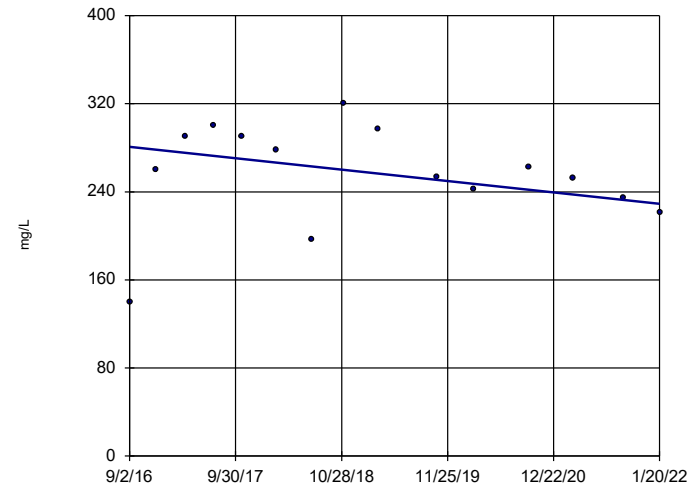


n = 15
Slope = -8.732
units per year.
Mann-Kendall
statistic = -57
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

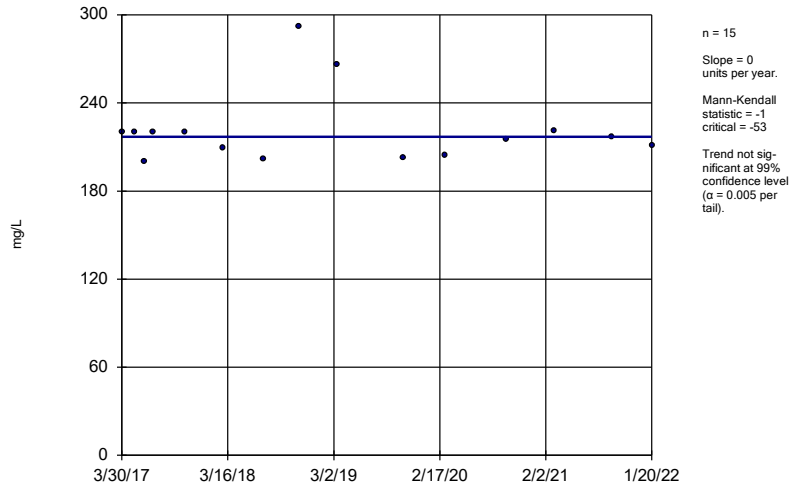
DGWC-22



n = 15
Slope = -9.596
units per year.
Mann-Kendall
statistic = -24
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

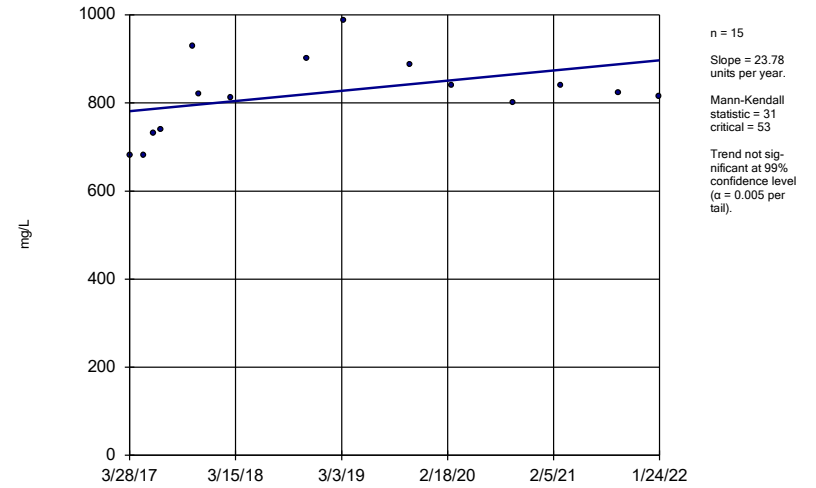
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



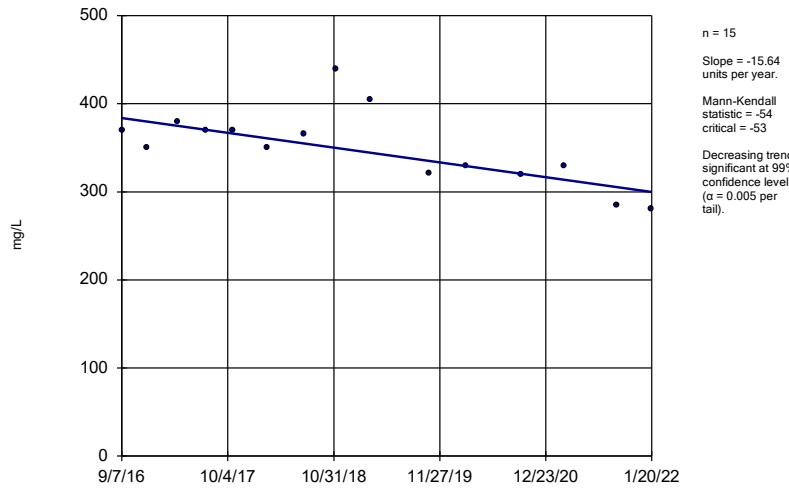
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



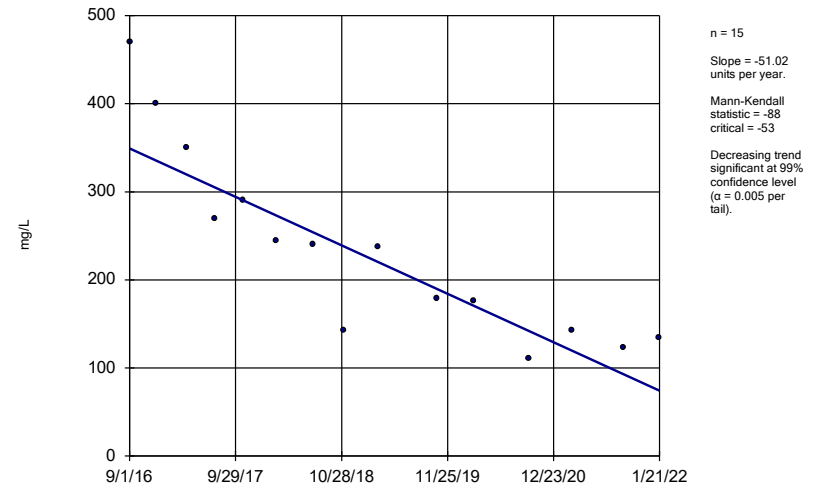
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-42



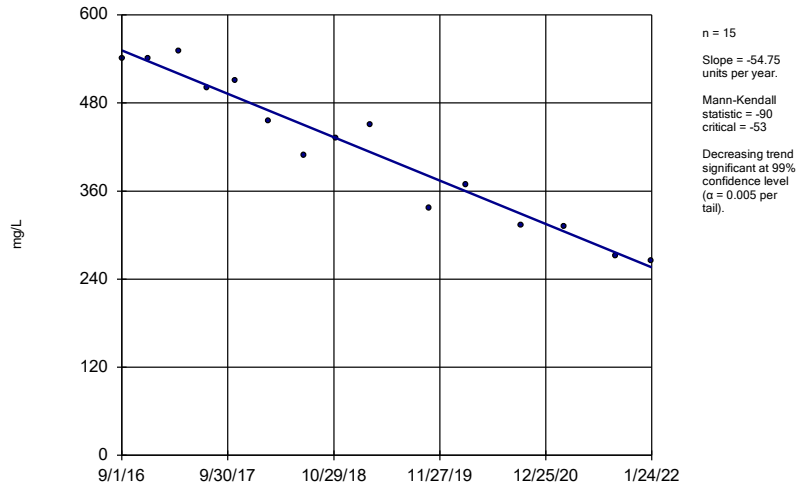
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



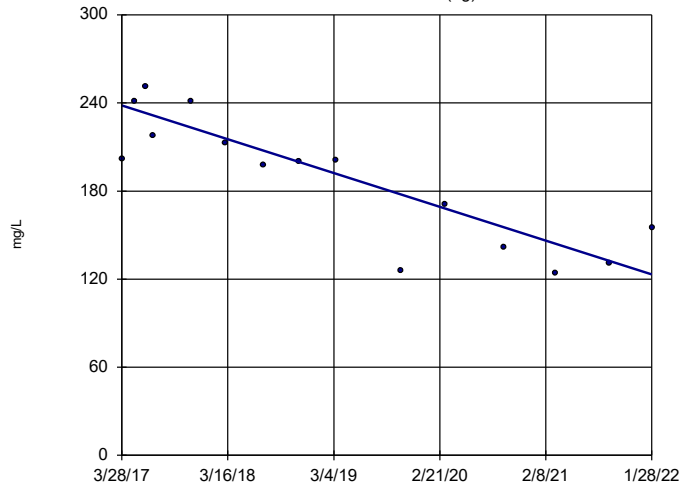
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-48



Sen's Slope Estimator

DGWA-53 (bg)

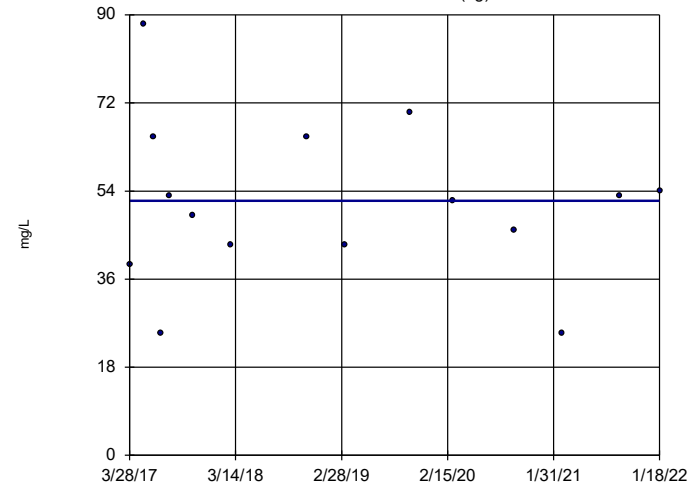


n = 15
 Slope = -23.75
 units per year.
 Mann-Kendall
 statistic = -68
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-70A (bg)

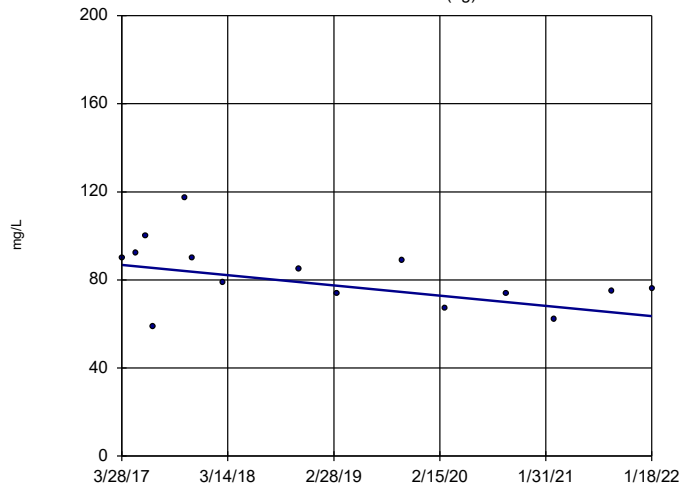


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

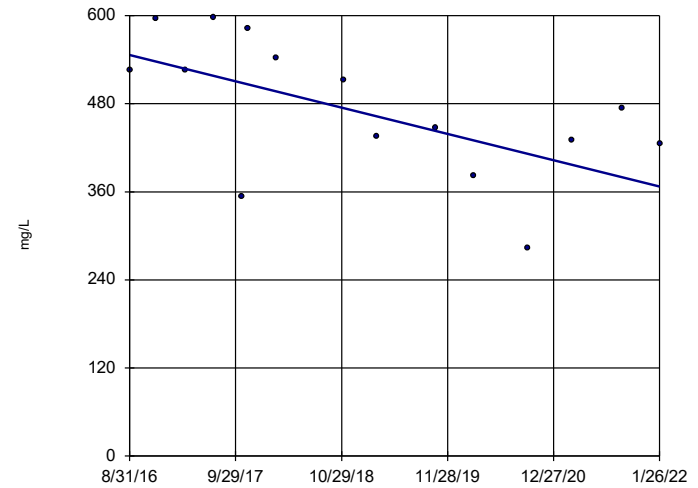


n = 15
 Slope = -4.828
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

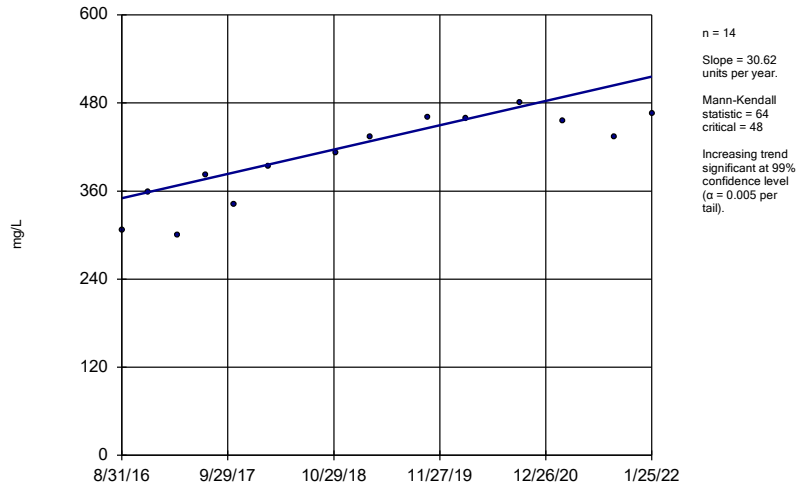
DGWC-10



n = 15
 Slope = -33.06
 units per year.
 Mann-Kendall
 statistic = -50
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

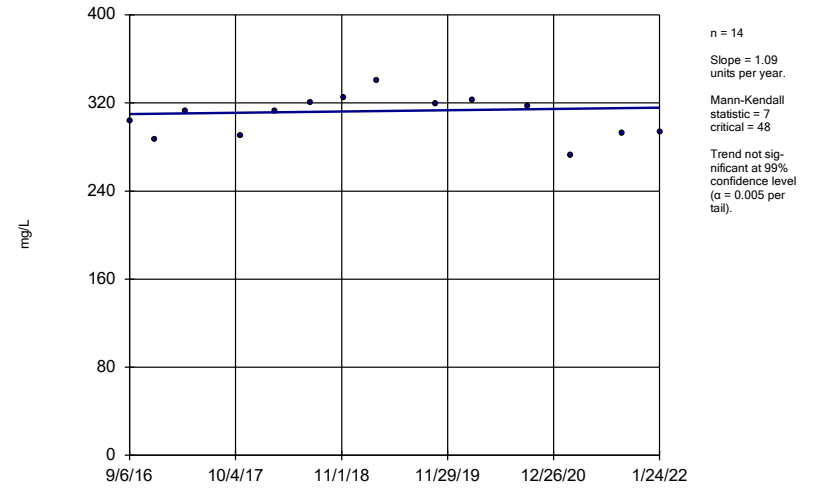
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-11



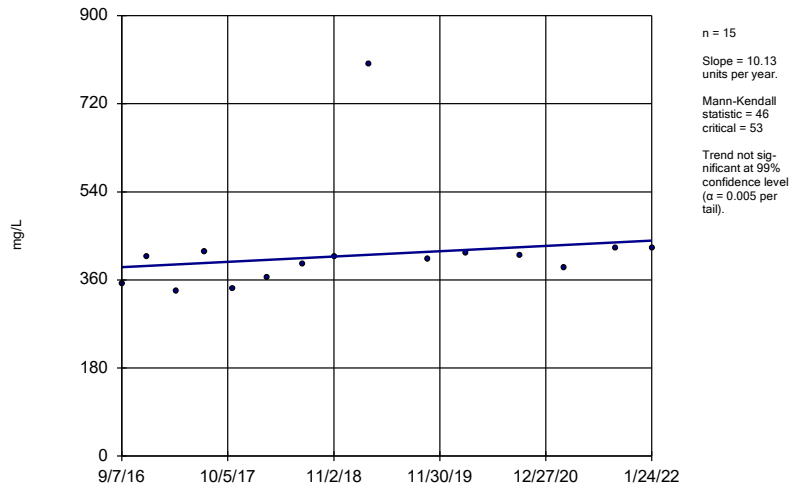
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-15



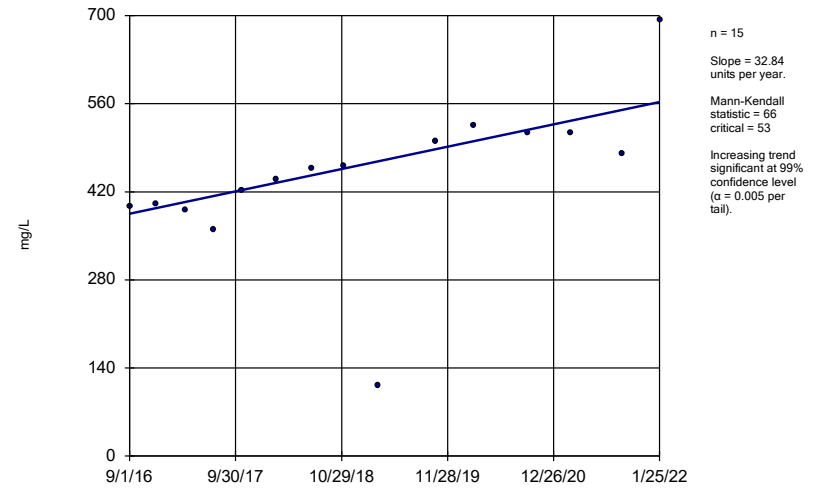
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



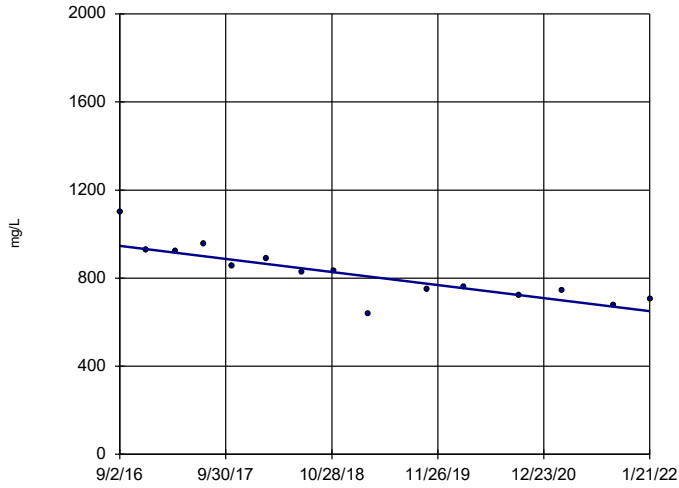
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



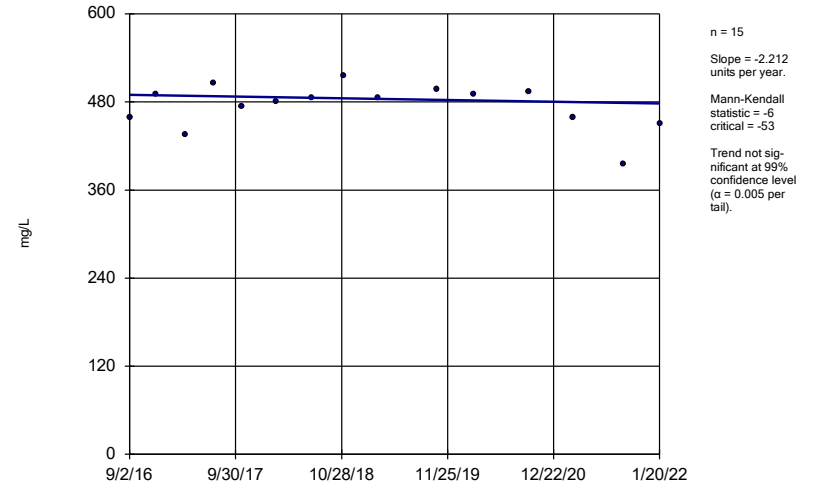
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



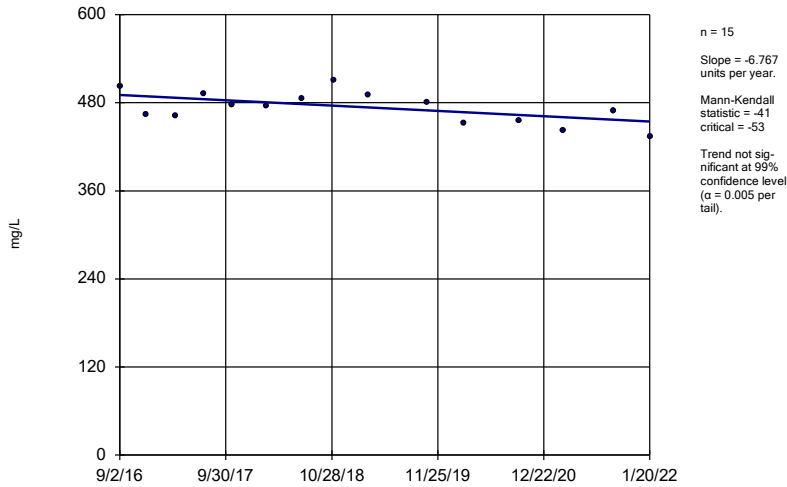
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



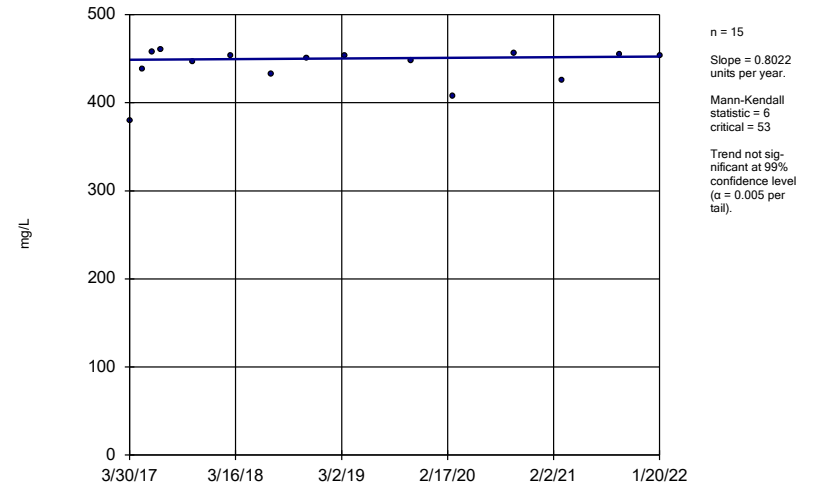
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



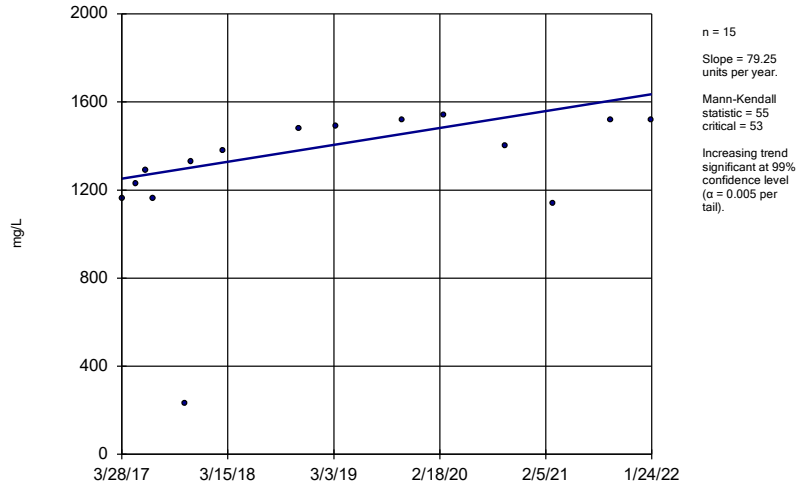
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



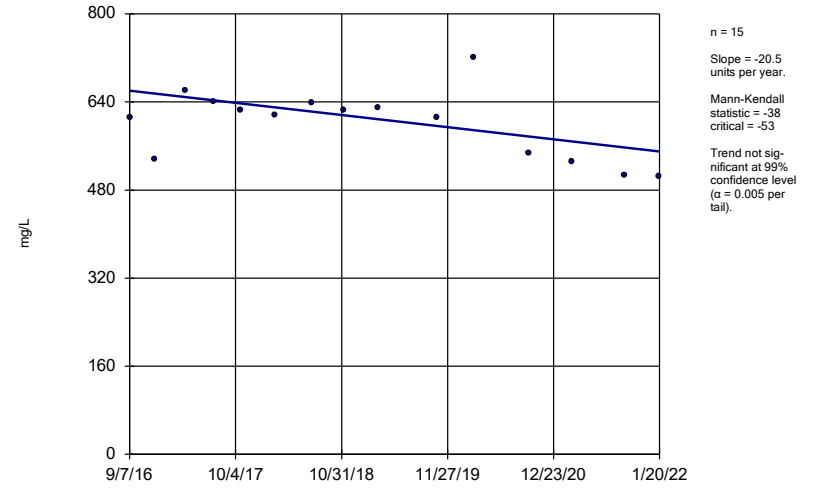
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-4



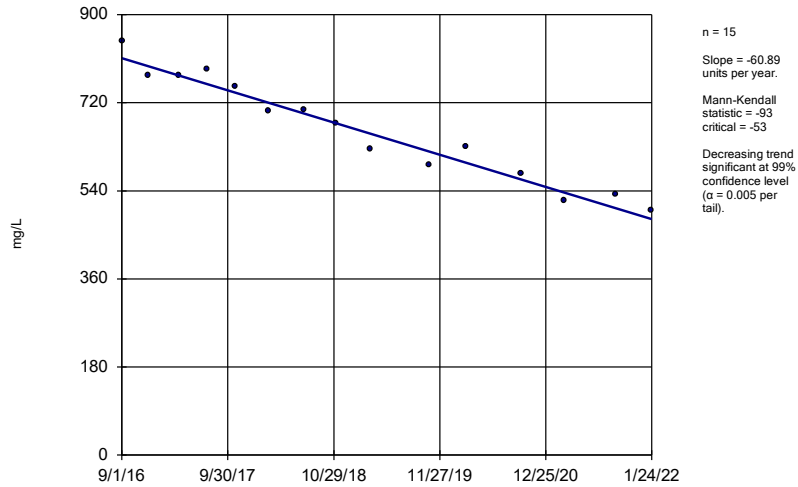
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-42



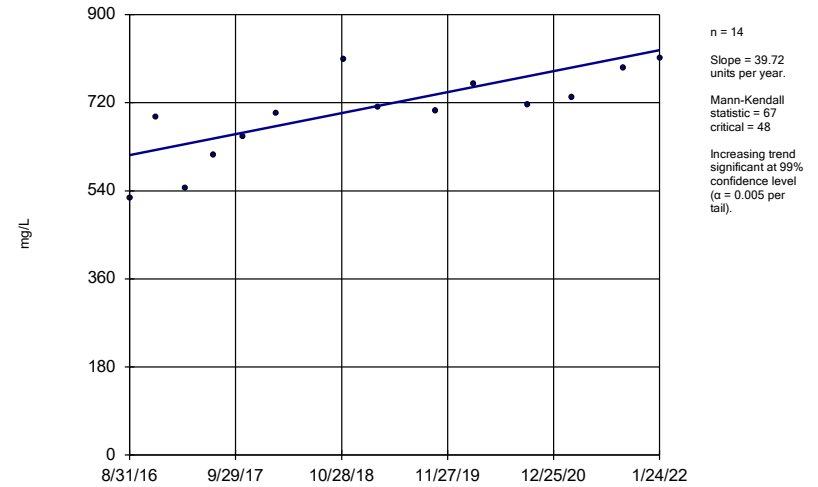
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-48



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

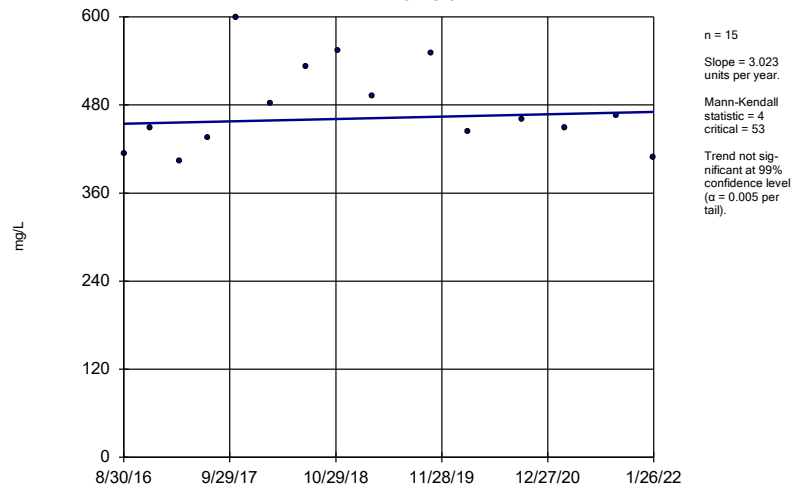
Sen's Slope Estimator DGWC-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:27 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0054	n/a	n/a	n/a	n/a	47	n/a	n/a	76.6	n/a	n/a	0.08974	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	n/a	47	n/a	n/a	0	n/a	n/a	0.08974	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	n/a	48	n/a	n/a	60.42	n/a	n/a	0.08526	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	47	n/a	n/a	93.62	n/a	n/a	0.08974	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	46	n/a	n/a	63.04	n/a	n/a	0.09447	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	n/a	47	n/a	n/a	38.3	n/a	n/a	0.08974	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	4.983	n/a	n/a	n/a	n/a	49	1.109	0.5427	0	None	sqrt(x)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	n/a	51	n/a	n/a	52.94	n/a	n/a	0.0731	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	47	n/a	n/a	36.17	n/a	n/a	0.08974	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	47	n/a	n/a	85.11	n/a	n/a	0.08974	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	n/a	47	n/a	n/a	63.83	n/a	n/a	0.08974	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	47	n/a	n/a	100	n/a	n/a	0.08974	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	95.74	n/a	n/a	0.08974	NP Inter(NDs)

FIGURE G.

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.0054	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		4.98	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02913	0.01664	0.01	Yes	16	0.02289	0.009597	6.25	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02525	0.01025	0.004	Yes	4	0.01775	0.003304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01753	0.01058	0.004	Yes	6	0.01432	0.003763	0	None	x^4	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009206	0.005901	0.004	Yes	15	0.007553	0.002439	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01262	0.009092	0.004	Yes	16	0.01086	0.002711	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009115	0.00746	0.004	Yes	16	0.008288	0.001272	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008667	0.006346	0.004	Yes	15	0.007507	0.001712	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.00586	0.004965	0.004	Yes	16	0.005413	0.0006879	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.19	0.1	0.032	Yes	5	0.15	0.04637	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-56	0.05424	0.03896	0.032	Yes	5	0.0466	0.004561	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05187	0.03613	0.032	Yes	6	0.044	0.005727	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06769	0.06065	0.032	Yes	6	0.06417	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.2	0.086	0.032	Yes	15	0.1501	0.04897	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05338	0.04952	0.032	Yes	16	0.05145	0.002973	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6741	0.4755	0.032	Yes	16	0.5821	0.1636	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3773	0.2515	0.032	Yes	16	0.3144	0.09666	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4998	0.3952	0.032	Yes	16	0.4475	0.08036	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08457	0.04108	0.032	Yes	15	0.06283	0.03209	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2031	0.1476	0.032	Yes	16	0.1754	0.04258	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	18.51	8.768	5	Yes	5	13.64	2.907	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.75	6.021	5	Yes	4	12.39	2.804	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07348	0.05756	0.04	Yes	16	0.06552	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1258	0.1063	0.04	Yes	16	0.1161	0.015	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	5	0.0024	0.0008337	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-101D	0.0019	0.00039	0.006	No	4	0.001028	0.0006355	0	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	5	0.00272	0.0006261	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-104D	0.001115	0.0004656	0.006	No	5	0.001208	0.001019	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	4	0.00237	0.00126	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	4	0.00169	0.001603	25	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	5	0.00252	0.001073	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	5	0.00262	0.0008497	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	8	0.002683	0.000898	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	5	0.002532	0.001046	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	7	0.001917	0.001353	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	5	0.00268	0.0007155	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	15	0.00294	0.0002324	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	16	0.002881	0.000475	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	16	0.002691	0.0008468	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	16	0.002841	0.0006375	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	16	0.002835	0.00066	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	16	0.00285	0.0006	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	16	0.002856	0.000575	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	15	0.002525	0.0009859	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	16	0.002888	0.00045	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	16	0.002762	0.0006998	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	15	0.002721	0.0007685	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	15	0.002831	0.0006558	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	4	0.004175	0.00165	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-104D	0.003739	0.001527	0.01	No	5	0.00358	0.001417	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	4	0.0044	0.0012	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-111D	0.002994	0.001984	0.01	No	5	0.00348	0.001413	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	5	0.0037	0.0008276	0	None	No	0.031	NP (normality)
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	8	0.004787	0.000601	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-77	0.002995	0.00198	0.01	No	7	0.0032	0.00129	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	7	0.004714	0.0007559	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-93	0.002958	0.001042	0.01	No	5	0.0032	0.001716	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006969	0.003657	0.01	No	15	0.005313	0.002444	6.667	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	17	0.004484	0.001456	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	16	0.004712	0.001152	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	16	0.004221	0.00168	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	16	0.003271	0.002034	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001941	0.000939	0.01	No	16	0.002259	0.001516	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	16	0.004424	0.001273	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01654	0.007987	0.01	No	16	0.01226	0.006572	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	16	0.00475	0.001	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	15	0.00386	0.001961	73.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	16	0.004487	0.001402	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002781	0.001442	0.01	No	16	0.002687	0.001474	18.75	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	16	0.003318	0.001988	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.00948	0.002765	0.01	No	15	0.008007	0.009756	13.33	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	15	0.003777	0.001805	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.02913	0.01664	0.01	Yes	16	0.02289	0.009597	6.25	None	No	0.01	Param.
Barium (mg/L)	B-100	0.02464	0.01515	2	No	5	0.0206	0.003209	0	None	x^3	0.01	Param.
Barium (mg/L)	B-101D	0.08756	0.05325	2	No	4	0.0695	0.00755	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-102D	0.02437	0.01963	2	No	5	0.022	0.001414	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02643	0.01917	2	No	5	0.0228	0.002168	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-106D	0.02292	0.01858	2	No	4	0.02075	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1549	0.05958	2	No	4	0.1073	0.021	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06986	0.05114	2	No	4	0.0605	0.004123	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.08497	0.007526	2	No	4	0.04625	0.01706	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.04672	0.02248	2	No	5	0.0346	0.007232	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03135	0.02465	2	No	5	0.028	0.002	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02672	0.02003	2	No	8	0.02338	0.003159	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.02917	0.01723	2	No	5	0.0232	0.003564	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02113	0.01487	2	No	5	0.018	0.001871	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1281	0.09357	2	No	7	0.1109	0.01455	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03114	0.02086	2	No	6	0.026	0.003742	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.04907	0.02034	2	No	6	0.03383	0.01143	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-88	0.0243	0.0153	2	No	5	0.0198	0.002683	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.02107	0.01413	2	No	5	0.0176	0.002074	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02917	0.02293	2	No	15	0.02605	0.004606	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06572	0.05513	2	No	15	0.06043	0.007817	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03386	0.02441	2	No	17	0.02975	0.008686	0	None	ln(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03263	0.02737	2	No	15	0.02901	0.007107	6.667	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06275	0.0582	2	No	16	0.06048	0.003503	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05027	0.04394	2	No	16	0.04711	0.004864	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.0553	0.04047	2	No	16	0.04789	0.01139	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02548	0.02201	2	No	16	0.02374	0.002664	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02263	0.02137	2	No	16	0.022	0.0009661	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01565	0.009614	2	No	16	0.01263	0.004637	6.25	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	16	0.02584	0.001534	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03732	0.03162	2	No	16	0.03447	0.004386	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02371	0.01873	2	No	16	0.02131	0.004018	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03608	0.0324	2	No	15	0.03424	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02019	0.01598	2	No	16	0.01809	0.003235	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01957	0.01604	2	No	16	0.01781	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	16	0.01369	0.0009849	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01831	0.0166	2	No	14	0.01746	0.001208	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03722	0.02572	2	No	15	0.03147	0.008488	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01621	0.01491	2	No	16	0.01556	0.001002	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005873	0.0003207	0.004	No	5	0.000454	0.00007956	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00009478	0.00003472	0.004	No	4	0.00006475	0.00001323	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001438	0.001002	0.004	No	5	0.00122	0.0001304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.00162	0.00102	0.004	No	5	0.00132	0.0001789	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001442	0.0001008	0.004	No	4	0.0001225	0.000009574	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	4	0.0003875	0.000225	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	B-109D	0.0005	0.000059	0.004	No	4	0.0001773	0.0002153	25	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.001318	0.001082	0.004	No	5	0.0012	0.00007071	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	9	0.000202	0.0001705	22.22	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-63	0.0004902	0.0003098	0.004	No	7	0.0004	0.00007594	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0005	0.000053	0.004	No	7	0.0002657	0.0002212	42.86	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-82	0.002008	0.001092	0.004	No	6	0.00155	0.0003332	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006048	0.0002408	0.004	No	6	0.0004017	0.0001548	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005069	0.0001483	0.004	No	5	0.001986	0.00175	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-92	0.02525	0.01025	0.004	Yes	4	0.01775	0.003304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01753	0.01058	0.004	Yes	6	0.01432	0.003763	0	None	x^4	0.01	Param.
Beryllium (mg/L)	B-97	0.002084	0.0003761	0.004	No	5	0.00152	0.0005848	20	Kaplan-Meier	x^2	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000068	0.004	No	5	0.0004876	0.0002841	60	Kaplan-Meier	No	0.031	NP (NDs)
Beryllium (mg/L)	DGWC-10	0.009206	0.005901	0.004	Yes	15	0.007553	0.002439	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.0005	0.00013	0.004	No	15	0.000476	0.0007205	46.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	17	0.0004005	0.0006832	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	15	0.0004967	0.0007238	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	16	0.0006111	0.0006494	87.5	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-17	0.0006166	0.0005309	0.004	No	16	0.0005738	0.00006592	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	16	0.001906	0.0004809	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.005282	0.00248	0.004	No	16	0.003881	0.002153	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	16	0.0003625	0.0007092	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00014	0.004	No	16	0.0003613	0.0007093	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	16	0.0006081	0.0006451	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	15	0.0004213	0.0007196	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.0027	0.002043	0.004	No	16	0.002313	0.0006407	6.25	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01262	0.009092	0.004	Yes	16	0.01086	0.002711	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009115	0.00746	0.004	Yes	16	0.008288	0.001272	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008667	0.006346	0.004	Yes	15	0.007507	0.001712	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.002987	0.001628	0.004	No	15	0.00236	0.00108	6.667	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.00586	0.004965	0.004	Yes	16	0.005413	0.0006879	0	None	No	0.01	Param.
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	5	0.000402	0.0001718	0	None	No	0.031	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	4	0.0004025	0.000195	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009489	0.0006591	0.005	No	5	0.000804	0.00008649	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0003088	0.00007618	0.005	No	4	0.0001925	0.00005123	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0002987	0.0002293	0.005	No	5	0.000264	0.00002074	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	5	0.000378	0.0001715	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-82	0.0007813	0.0003687	0.005	No	6	0.000575	0.0001502	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004012	0.0002521	0.005	No	6	0.0003267	0.00005428	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	5	0.002684	0.002458	0	None	No	0.031	NP (selected)
Cadmium (mg/L)	B-93	0.0008797	0.0006923	0.005	No	5	0.000786	0.00005595	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001179	0.0007973	0.005	No	15	0.000988	0.0002814	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	15	0.0004047	0.0001639	73.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003402	0.0002276	0.005	No	17	0.0004006	0.0001874	29.41	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	15	0.000452	0.0001287	86.67	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	16	0.0004331	0.0002304	75	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	16	0.0002969	0.00008784	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	16	0.00042	0.0001609	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.000281	0.0001339	0.005	No	16	0.000375	0.0002281	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002305	0.001758	0.005	No	16	0.002031	0.0004207	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.000639	0.0003517	0.005	No	16	0.0005981	0.0001973	18.75	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006895	0.0004592	0.005	No	16	0.0005744	0.000177	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	16	0.0002856	0.0002091	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.000847	0.0006264	0.005	No	15	0.0007367	0.0001628	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001058	0.0004581	0.005	No	16	0.0007956	0.0005496	12.5	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00216	0.00129	0.005	No	16	0.001725	0.0006678	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0028	0.005	No	16	0.003488	0.001632	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008318	0.0004655	0.005	No	15	0.0006487	0.0002703	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002476	0.001924	0.005	No	15	0.0022	0.0004071	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006618	0.0005096	0.005	No	16	0.0005925	0.0001326	12.5	None	ln(x)	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	5	0.003302	0.002329	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	4	0.0041	0.0018	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	4	0.003902	0.002195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001524	0.0003348	0.1	No	5	0.002678	0.002145	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	8	0.004497	0.001421	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	5	0.004128	0.00195	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	7	0.00278	0.00213	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-83	0.005747	0.001953	0.1	No	6	0.00385	0.001381	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.00197	0.0007556	0.1	No	5	0.00279	0.00204	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-93	0.001195	0.0004647	0.1	No	5	0.002466	0.002322	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	15	0.00224	0.002024	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	15	0.003826	0.002015	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	17	0.004525	0.00134	88.24	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	15	0.003859	0.001959	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	16	0.004459	0.00232	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0025	0.1	No	16	0.003037	0.0008366	12.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	16	0.003387	0.001958	18.75	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	16	0.003323	0.002237	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0016	0.1	No	16	0.003381	0.002329	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	16	0.003434	0.002117	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	16	0.004762	0.00095	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	16	0.002363	0.002124	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	15	0.0047	0.001162	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	16	0.003202	0.002139	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	16	0.004731	0.001075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	16	0.004444	0.001521	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	15	0.004697	0.001175	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	15	0.003498	0.001973	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	16	0.003549	0.002106	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	7	0.05457	0.02716	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	B-101D	0.003913	0.001837	0.032	No	4	0.002875	0.0004573	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01518	0.01282	0.032	No	5	0.014	0.0007071	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.19	0.1	0.032	Yes	5	0.15	0.04637	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-106D	0.001021	0.0004466	0.032	No	4	0.001157	0.0009039	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.002061	0.0002441	0.032	No	4	0.001153	0.0004001	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00061	0.032	No	4	0.002203	0.001806	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-111D	0.0008753	0.0003847	0.032	No	5	0.000978	0.0008622	20	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	B-56	0.05424	0.03896	0.032	Yes	5	0.0466	0.004561	0	None	No	0.01	Param.
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	8	0.001951	0.001016	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	B-63	0.05187	0.03613	0.032	Yes	6	0.044	0.005727	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.013	0.004798	0.032	No	6	0.008483	0.003955	16.67	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002764	0.0005955	0.032	No	7	0.001914	0.0009245	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006994	0.001092	0.032	No	7	0.004043	0.002485	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.02028	0.005788	0.032	No	6	0.01303	0.005274	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.02345	0.0009922	0.032	No	6	0.008367	0.009138	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	B-93	0.06769	0.06065	0.032	Yes	6	0.06417	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.0048	0.0025	0.032	No	4	0.003075	0.00115	75	None	No	0.0625	NP (NDs)
Cobalt (mg/L)	DGWC-10	0.2	0.086	0.032	Yes	15	0.1501	0.04897	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	15	0.001482	0.0008885	40	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	17	0.008706	0.009703	11.76	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	15	0.002085	0.0008588	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	16	0.003519	0.00577	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02676	0.02009	0.032	No	16	0.02287	0.006278	6.25	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05338	0.04952	0.032	Yes	16	0.05145	0.002973	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0284	0.0055	0.032	No	16	0.01676	0.01166	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-20	0.6741	0.4755	0.032	Yes	16	0.5821	0.1636	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.009705	0.008358	0.032	No	16	0.008556	0.002085	12.5	None	x^5	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009815	0.007486	0.032	No	16	0.008469	0.002183	12.5	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00039	0.032	No	16	0.001752	0.001348	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	15	0.002013	0.0008717	13.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.0426	0.01599	0.032	No	16	0.02929	0.02045	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3773	0.2515	0.032	Yes	16	0.3144	0.09666	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4998	0.3952	0.032	Yes	16	0.4475	0.08036	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	15	0.02775	0.01072	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.08457	0.04108	0.032	Yes	15	0.06283	0.03209	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2031	0.1476	0.032	Yes	16	0.1754	0.04258	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5	No	5	0.782	0.4357	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-101D	2.694	0.8511	5	No	4	1.773	0.4058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.628	5	No	5	1.002	0.4775	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-104D	18.51	8.768	5	Yes	5	13.64	2.907	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-106D	1.147	0.2089	5	No	4	0.678	0.2066	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	2.685	0.1062	5	No	4	1.396	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	2.507	0.02236	5	No	4	1.265	0.5472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.75	6.021	5	Yes	4	12.39	2.804	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	13.54	2.882	5	No	5	8.21	3.18	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.434	0.6598	5	No	5	1.047	0.231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.951	1.275	5	No	7	1.613	0.2846	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	2.742	0.231	5	No	4	1.487	0.553	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5	No	4	0.6165	0.5008	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5	No	6	1.416	0.7269	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.101	0.2589	5	No	5	0.6798	0.2512	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5	No	6	0.6532	0.3977	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5	No	5	1.637	0.9496	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-93	2.013	0.4326	5	No	5	1.223	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.477	1.082	5	No	16	1.28	0.3039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.251	0.6895	5	No	16	0.9703	0.4315	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.227	0.4225	5	No	16	0.8885	0.691	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.462	0.9329	5	No	16	1.197	0.4063	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.075	0.6362	5	No	16	0.8554	0.337	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.478	0.5478	5	No	16	1.081	0.8576	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.026	0.5813	5	No	16	0.8038	0.342	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.005	0.4964	5	No	16	0.7509	0.3912	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.406	0.8744	5	No	16	1.14	0.4084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.501	0.8706	5	No	16	1.186	0.4842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.087	0.5598	5	No	16	0.8233	0.405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.319	0.6845	5	No	16	1.002	0.4877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.442	0.7588	5	No	16	1.1	0.5247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.684	1.161	5	No	16	1.422	0.4014	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.144	0.6427	5	No	16	0.8934	0.3853	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.824	1.669	5	No	16	2.247	0.8871	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.406	1.484	5	No	16	1.945	0.7088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.784	1.001	5	No	16	1.392	0.6017	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.816	0.4664	5	No	16	0.6412	0.2687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.405	0.9357	5	No	16	1.171	0.3608	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-101D	0.1	0.051	4	No	4	0.064	0.02401	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-102D	0.1115	0.05295	4	No	5	0.0822	0.01746	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.5246	0.2354	4	No	5	0.38	0.08631	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.1	0.052	4	No	4	0.06475	0.02354	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-109D	0.1993	0.08574	4	No	4	0.1425	0.025	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.6099	0.2341	4	No	5	0.422	0.1121	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.3525	0.06269	4	No	5	0.2076	0.08648	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	7	0.1731	0.1226	0	None	No	0.008	NP (normality)
Fluoride, total (mg/L)	B-63	0.45	0.12	4	No	4	0.2325	0.1486	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-66	0.51	0.12	4	No	4	0.2875	0.1656	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	6	0.09567	0.008802	66.67	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No	5	0.1104	0.05423	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-83	0.11	0.03719	4	No	6	0.08617	0.02915	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.4115	0.2725	4	No	5	0.342	0.04147	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.858	1.374	4	No	17	1.616	0.3859	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	16	0.08163	0.02569	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.085	4	No	17	0.1549	0.1411	35.29	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.203	0.0833	4	No	16	0.1511	0.1082	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.06	4	No	17	0.08671	0.02582	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	17	0.1051	0.04225	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.219	0.08606	4	No	17	0.1978	0.1524	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.4699	0.1718	4	No	17	0.3588	0.3073	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	17	0.1404	0.1539	41.18	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-20	0.9847	0.4388	4	No	17	0.7118	0.4356	5.882	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	17	0.1066	0.06454	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	17	0.1174	0.06341	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-23	0.2156	0.09287	4	No	17	0.1802	0.1523	11.76	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	17	0.1342	0.1722	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	17	0.09294	0.02114	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.115	0.5252	4	No	17	0.82	0.4704	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.156	0.6086	4	No	17	0.8824	0.437	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6778	0.2217	4	No	16	0.5431	0.4512	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.355	0.09666	4	No	16	0.2751	0.2307	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.378	0.9813	4	No	17	1.179	0.3162	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0002658	0.00007745	0.015	No	5	0.0004956	0.0004626	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	4	0.0007663	0.0004675	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	5	0.0004292	0.0005211	40	None	No	0.031	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	5	0.0008102	0.0004244	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	4	0.000761	0.000478	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	5	0.0006218	0.0005179	60	None	No	0.031	NP (NDs)
Lead (mg/L)	B-56	0.0002446	0.00006493	0.015	No	5	0.0004822	0.0004754	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	5	0.000624	0.0005149	60	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	7	0.0007743	0.0005154	42.86	None	No	0.008	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	6	0.0005548	0.0004887	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	6	0.0005458	0.0004704	33.33	None	No	0.0155	NP (normality)
Lead (mg/L)	B-88	0.01033	0.00001383	0.015	No	5	0.003272	0.004927	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	5	0.000648	0.000482	60	None	No	0.031	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	15	0.0006521	0.0004424	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	15	0.0006999	0.0004397	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	17	0.0008947	0.0002972	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	15	0.0008865	0.0003001	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	16	0.0008264	0.0003733	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	16	0.0007338	0.0004393	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	16	0.0006121	0.0004549	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	16	0.0007243	0.0004251	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	16	0.0005459	0.0004693	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	16	0.0007479	0.0003629	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	16	0.0006416	0.0004258	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	16	0.0009416	0.0002335	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	15	0.0007646	0.0004051	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004511	0.0001577	0.015	No	16	0.0008263	0.001188	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	16	0.001076	0.001068	31.25	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	16	0.001629	0.001139	12.5	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	15	0.0006252	0.0006613	40	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	15	0.0006521	0.0004097	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	16	0.00085	0.0003235	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003016	0.001264	0.04	No	5	0.00214	0.0005225	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.017	0.006902	0.04	No	4	0.01195	0.002223	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01538	0.01102	0.04	No	5	0.0132	0.001304	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04001	0.03494	0.04	No	5	0.0376	0.001517	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-106D	0.006141	0.004509	0.04	No	4	0.005325	0.0003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01811	0.01239	0.04	No	4	0.01525	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01692	0.01258	0.04	No	4	0.01475	0.0009574	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01711	0.01139	0.04	No	4	0.01425	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.03138	0.01862	0.04	No	5	0.025	0.003808	0	None	No	0.01	Param.
Lithium (mg/L)	B-56	0.006196	0.004724	0.04	No	5	0.00546	0.0004393	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	8	0.009375	0.002345	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	6	0.0078	0.00353	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	5	0.01215	0.006382	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	B-77	0.004192	0.0008941	0.04	No	7	0.006021	0.00628	28.57	Kaplan-Meier	x^(1/3)	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-82	0.004158	0.0006351	0.04	No	6	0.001987	0.001394	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-83	0.004017	0.001316	0.04	No	6	0.002667	0.0009832	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	5	0.00898	0.01143	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	5	0.0116	0.0008944	0	None	No	0.031	NP (normality)
Lithium (mg/L)	DGWC-10	0.006718	0.002851	0.04	No	15	0.00538	0.004126	13.33	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	15	0.003113	0.003305	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	17	0.01089	0.006559	70.59	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	15	0.0048	0.004151	13.33	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	16	0.004694	0.002975	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	15	0.006173	0.0008681	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	16	0.009782	0.006959	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	16	0.003937	0.002958	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	16	0.04749	0.02995	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	16	0.006756	0.005599	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0063	0.0057	0.04	No	16	0.006512	0.002288	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	16	0.004737	0.00277	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0118	0.003707	0.04	No	16	0.01111	0.01783	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0038	0.0025	0.04	No	15	0.003787	0.003138	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01251	0.00968	0.04	No	16	0.01109	0.002172	6.25	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07348	0.05756	0.04	Yes	16	0.06552	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1258	0.1063	0.04	Yes	16	0.1161	0.015	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.00808	0.004375	0.04	No	15	0.006373	0.002953	6.667	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.006975	0.004221	0.04	No	15	0.005847	0.002818	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02929	0.02363	0.04	No	16	0.02646	0.004347	6.25	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	5	0.0001758	0.00005411	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	5	0.0001788	0.0000474	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	6	0.000185	0.00003674	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	5	0.000162	0.00005215	60	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-93	0.0002837	0.00006508	0.002	No	5	0.0001896	0.00006626	20	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	15	0.0001681	0.00005494	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	17	0.0001568	0.00006349	64.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	15	0.000184	0.00004239	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	16	0.0001441	0.00006323	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	16	0.0001737	0.00005726	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	16	0.0002046	0.000126	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	16	0.0001781	0.00004708	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	16	0.0001606	0.00006202	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	16	0.0001697	0.00005593	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001952	0.000126	0.002	No	16	0.0001862	0.00005548	31.25	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	15	0.0002068	0.000115	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	16	0.00019	0.00004	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002535	0.0001262	0.002	No	15	0.0001983	0.0001154	13.33	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	15	0.0001527	0.00006222	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	16	0.0001851	0.00008525	43.75	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	4	0.00805	0.0039	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	5	0.006406	0.004923	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002608	0.0003417	0.1	No	4	0.001475	0.0004992	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	5	0.00716	0.003317	0	None	No	0.031	NP (normality)

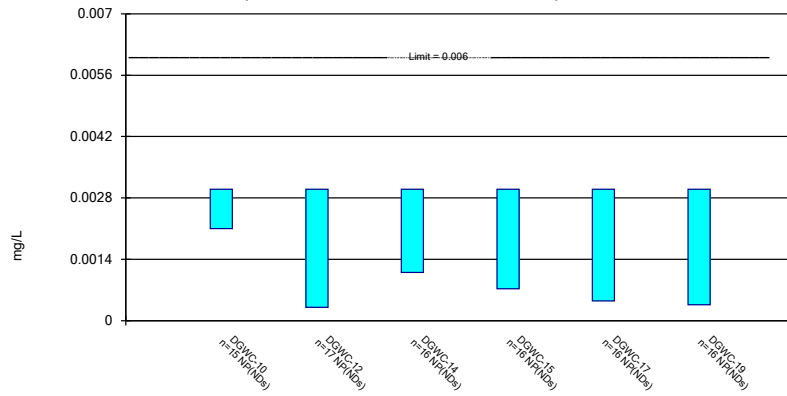
Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	5	0.00666	0.004575	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	5	0.00648	0.00482	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02437	0.01244	0.1	No	15	0.01892	0.009349	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	16	0.004912	0.00409	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01092	0.006853	0.1	No	16	0.008888	0.003128	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007089	0.004724	0.1	No	15	0.005907	0.001745	6.667	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	5	0.00438	0.001386	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	4	0.004525	0.00095	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	5	0.00394	0.001545	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	4	0.00415	0.0017	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-56	0.02912	0.003536	0.05	No	5	0.01412	0.008641	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	7	0.004529	0.001247	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	6	0.00345	0.001706	50	None	No	0.0155	NP (normality)
Selenium (mg/L)	B-83	0.0295	0.009895	0.05	No	6	0.0197	0.007137	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003306	0.001194	0.05	No	5	0.00308	0.001289	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-93	0.036	0.0063	0.05	No	5	0.01556	0.0123	0	None	No	0.031	NP (selected)
Selenium (mg/L)	DGWC-10	0.05073	0.02131	0.05	No	15	0.03602	0.02171	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	17	0.003994	0.00221	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004335	0.001931	0.05	No	15	0.00442	0.002391	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No	16	0.004062	0.002277	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	16	0.005112	0.001528	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008991	0.006416	0.05	No	16	0.007856	0.002312	12.5	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008721	0.005441	0.05	No	16	0.007081	0.002521	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0037	0.05	No	16	0.005062	0.001593	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06568	0.03434	0.05	No	16	0.05001	0.02408	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	16	0.004794	0.000825	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	15	0.00476	0.0009295	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01246	0.004865	0.05	No	16	0.008662	0.005836	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006784	0.0028	0.05	No	16	0.005769	0.00318	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04184	0.008956	0.05	No	15	0.03077	0.04124	6.667	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	15	0.004613	0.002068	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1254	0.0492	0.05	No	16	0.08729	0.05853	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003386	0.0001454	0.002	No	5	0.000242	0.00005762	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	6	0.0007015	0.0004624	66.67	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	6	0.0008453	0.0003789	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	5	0.00084	0.0003578	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00034	0.002	No	15	0.00048	0.0002241	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	17	0.0006275	0.0004591	58.82	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	16	0.0004356	0.0003933	31.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	16	0.0005456	0.0001339	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0009559	0.0005248	0.002	No	16	0.0009456	0.0004827	31.25	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	16	0.0007084	0.0004467	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	15	0.0009382	0.0002394	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	16	0.0007712	0.0004093	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	16	0.0003469	0.0002599	12.5	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	16	0.0007129	0.0004399	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	15	0.0008227	0.0003682	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	15	0.0003753	0.0003274	20	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	16	0.0007213	0.0002474	37.5	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

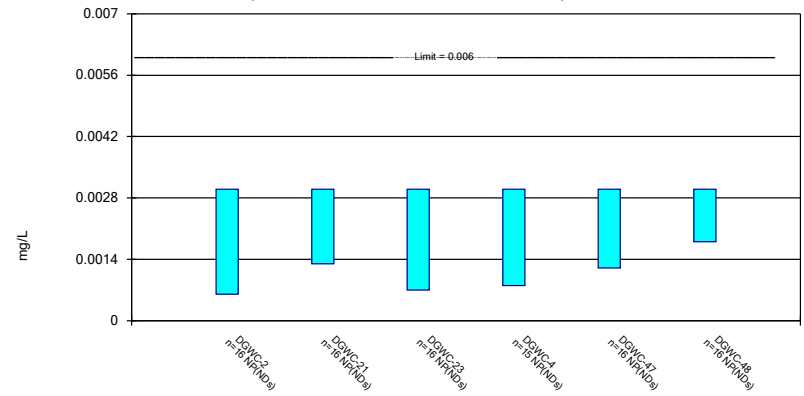
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Constituent: Antimony Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

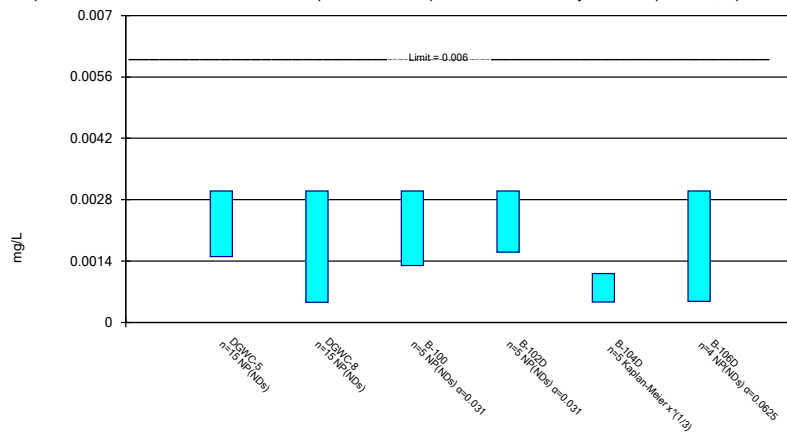
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

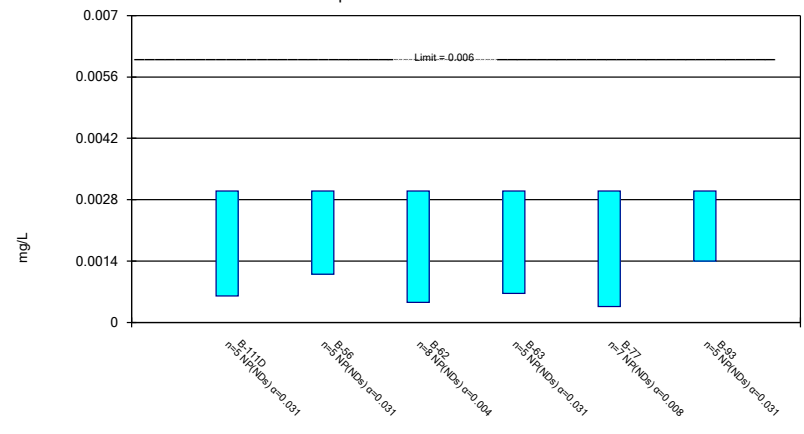
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Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

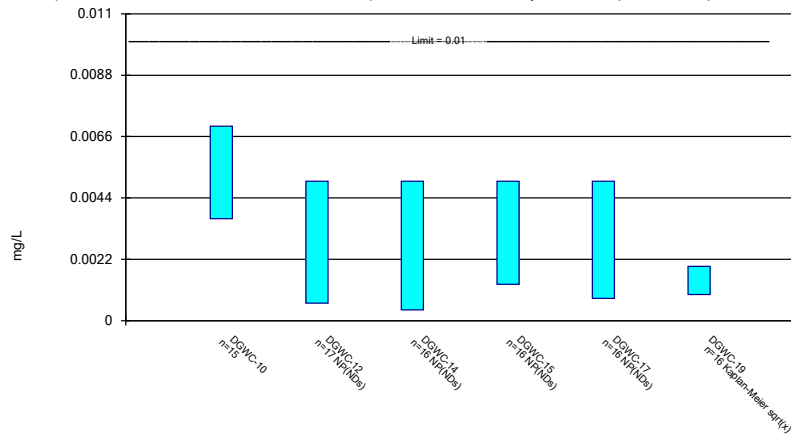
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Parametric and Non-Parametric (NP) Confidence Interval

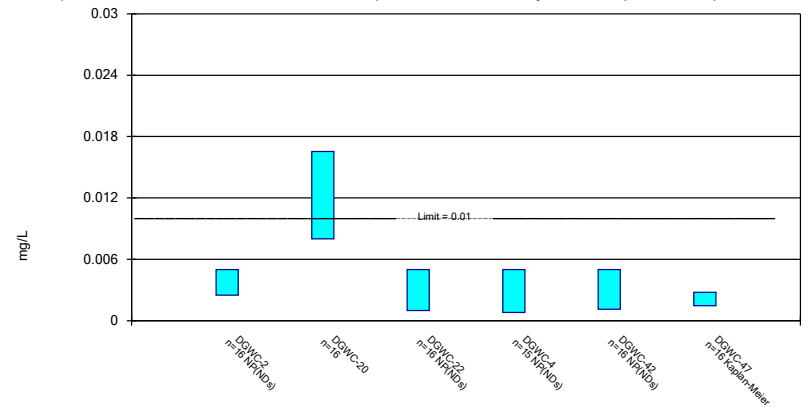
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

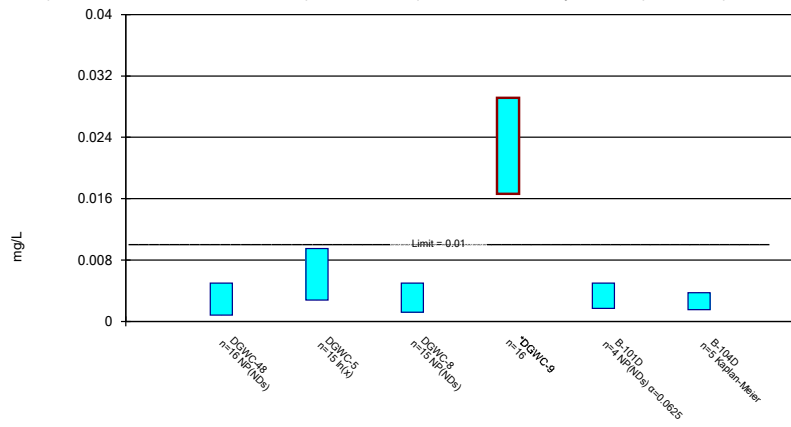
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Parametric and Non-Parametric (NP) Confidence Interval

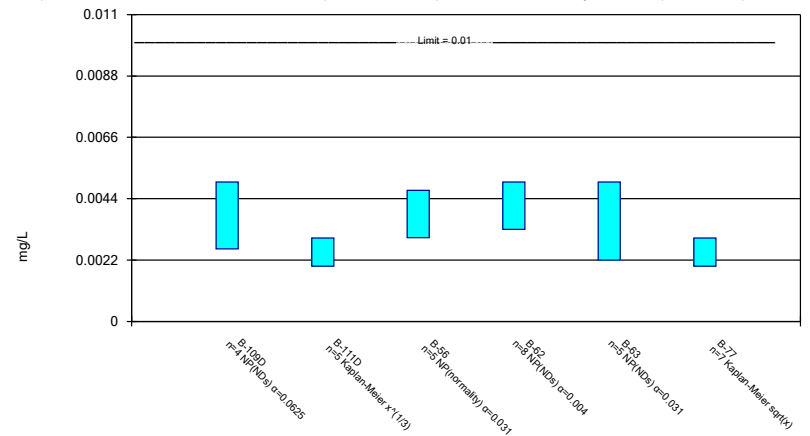
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Parametric and Non-Parametric (NP) Confidence Interval

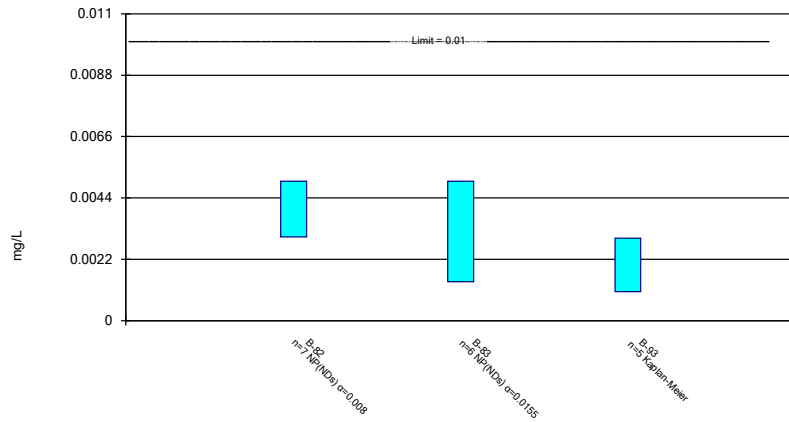
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Parametric and Non-Parametric (NP) Confidence Interval

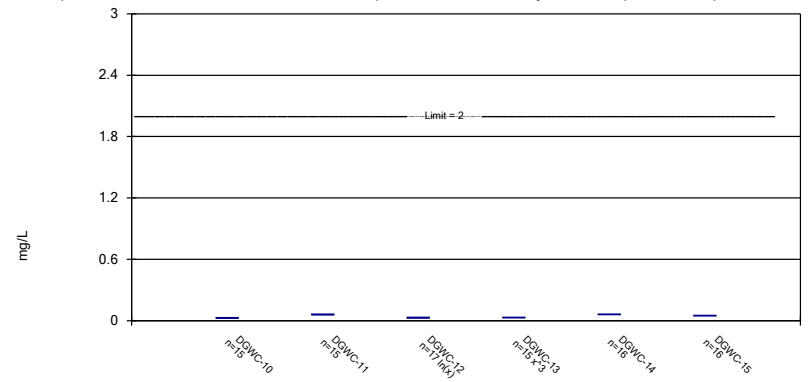
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

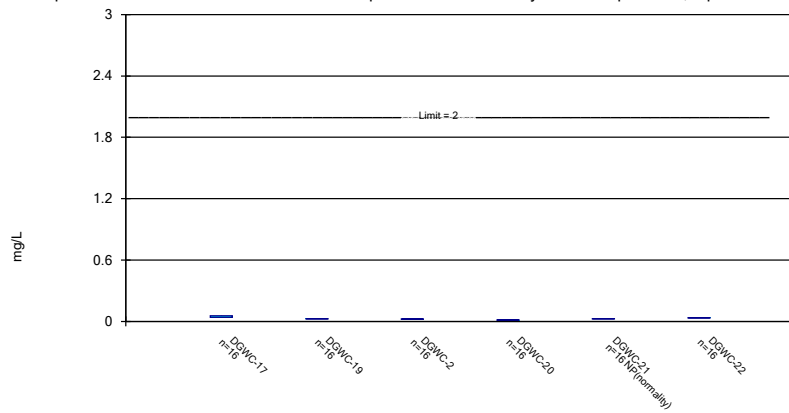
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

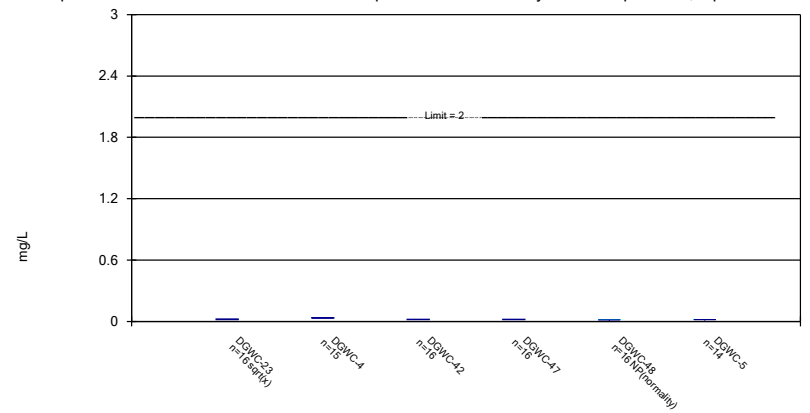
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Parametric and Non-Parametric (NP) Confidence Interval

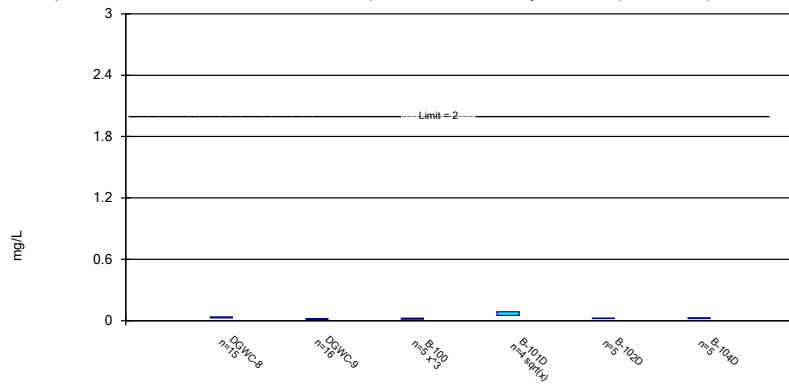
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

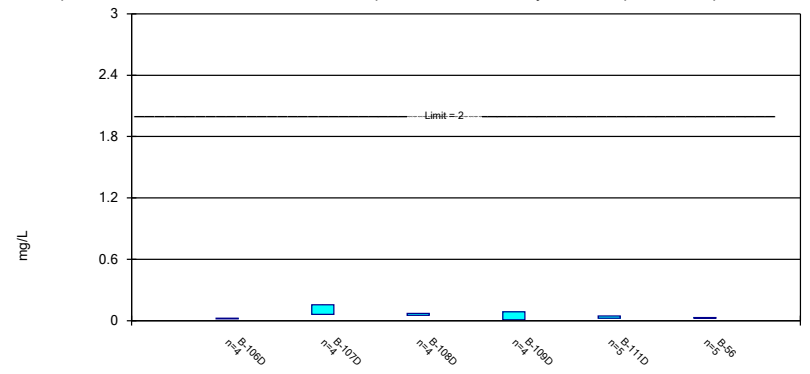
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

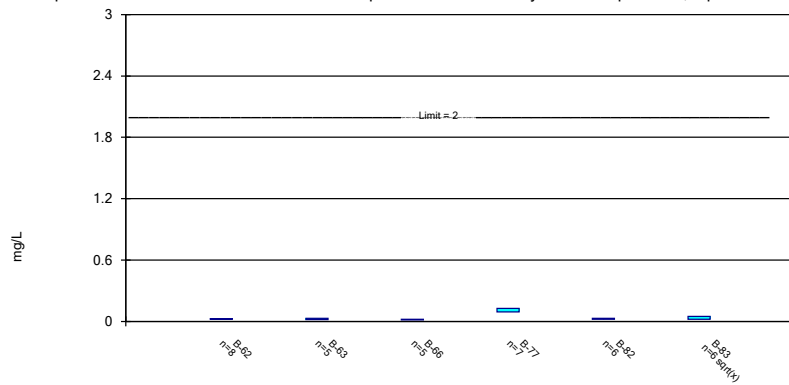
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

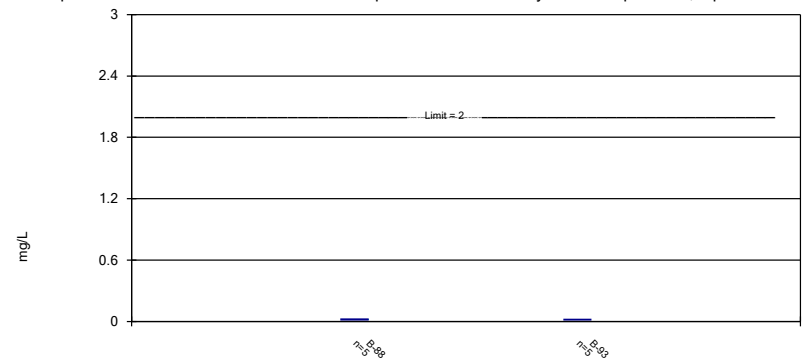
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

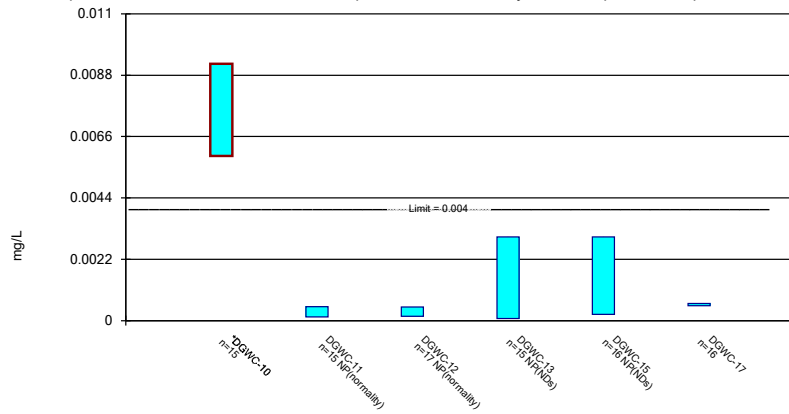
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

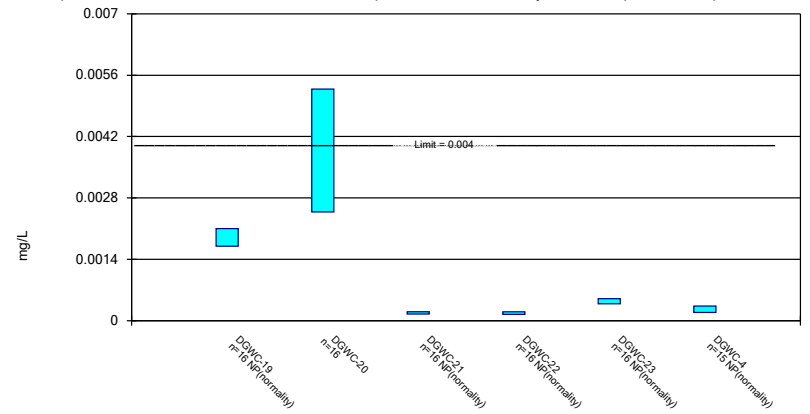
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

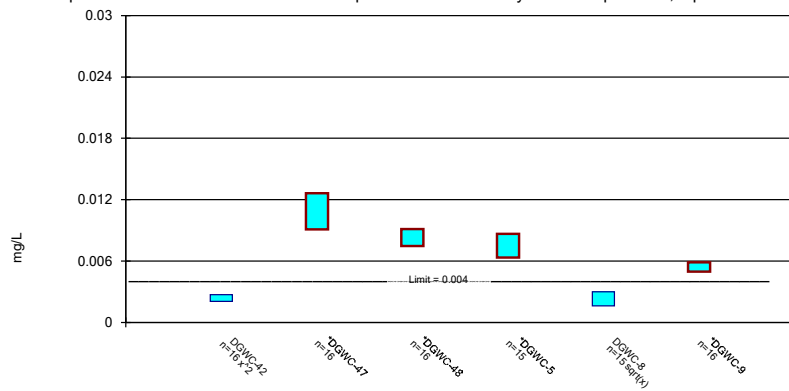
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

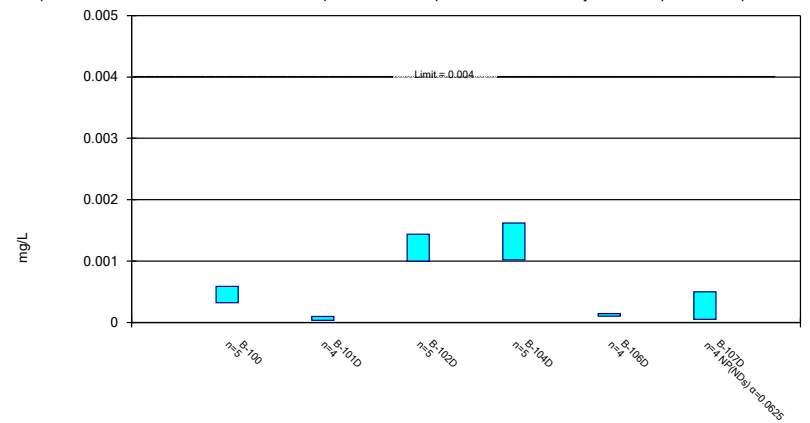
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

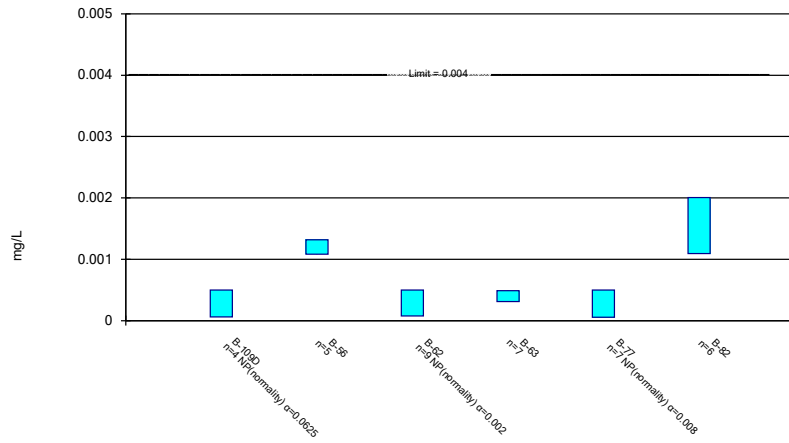
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

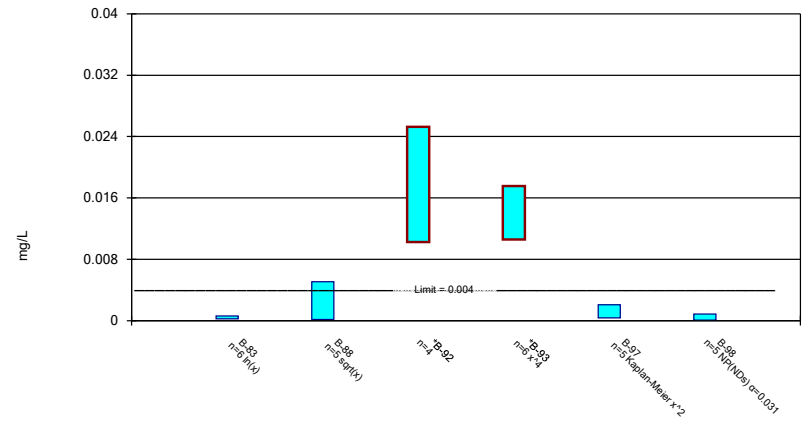
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

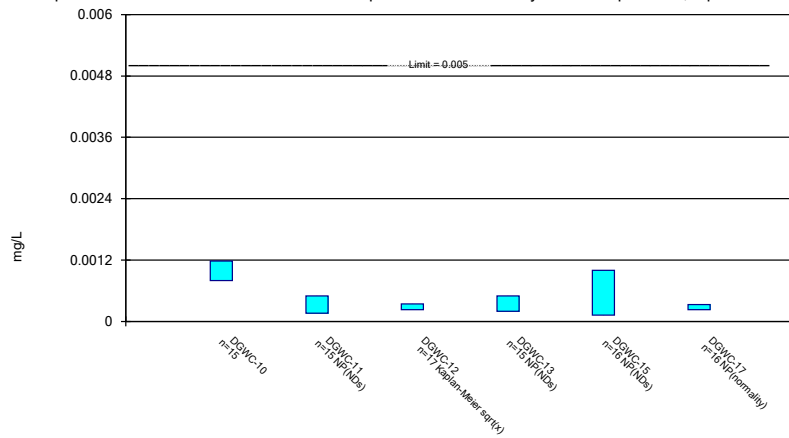
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

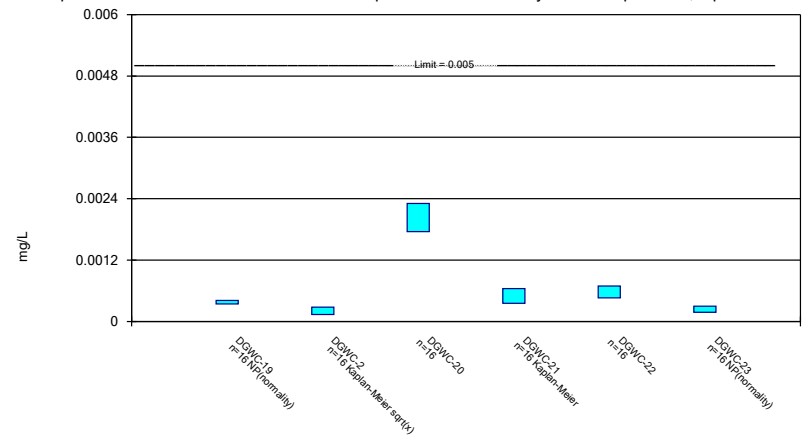
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

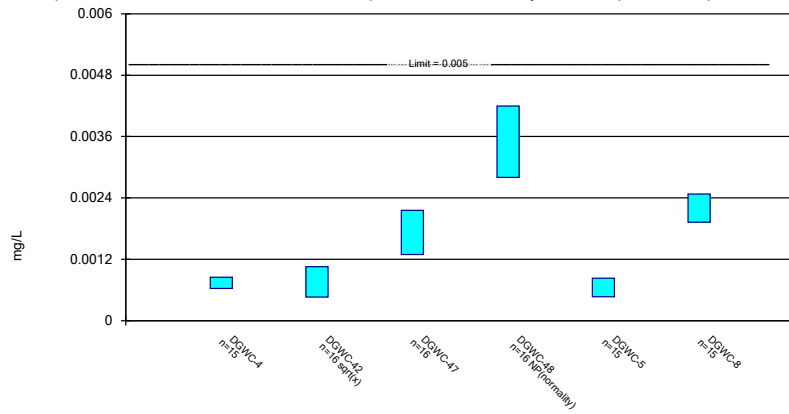
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

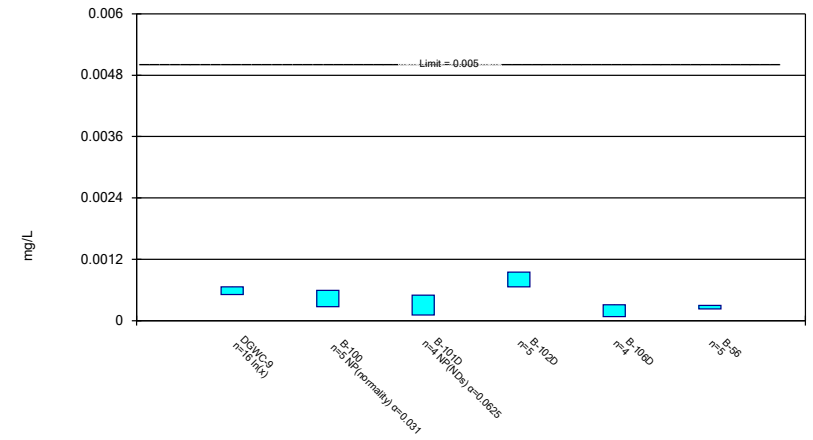
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

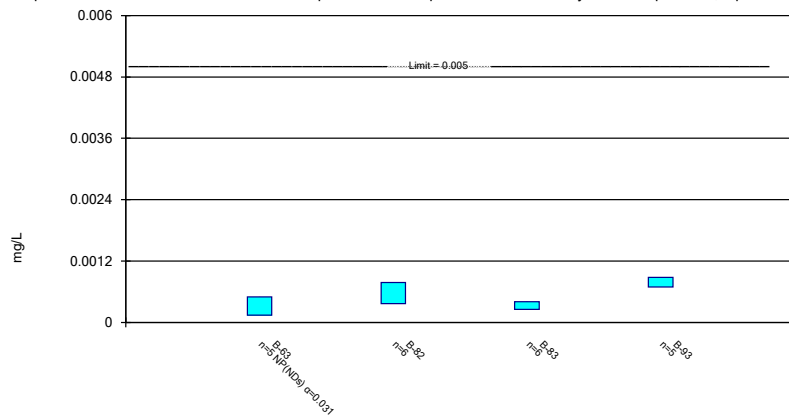
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

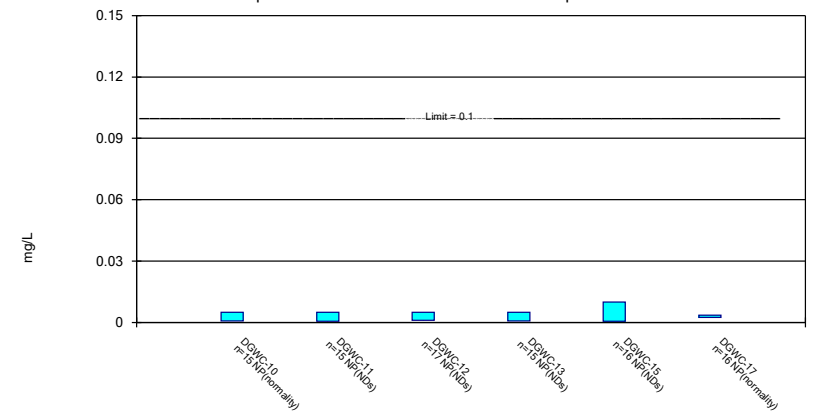
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

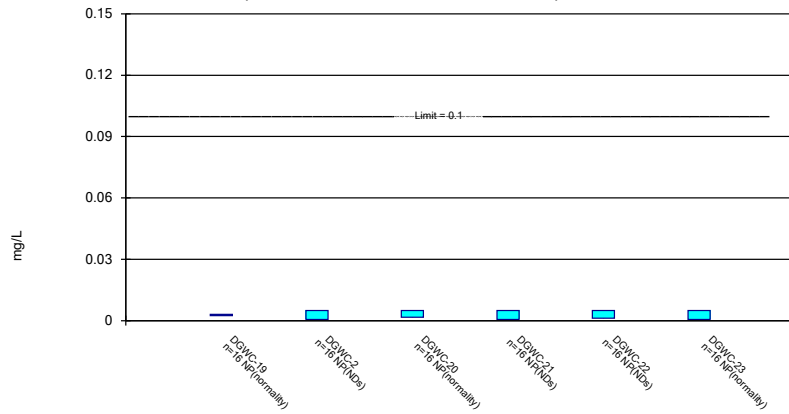
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

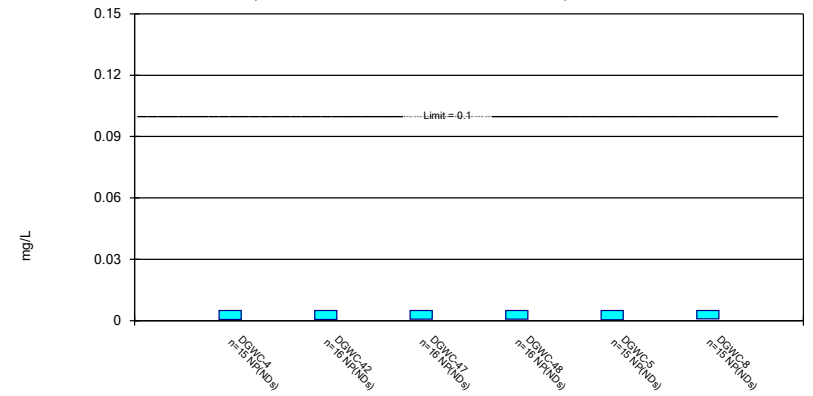
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

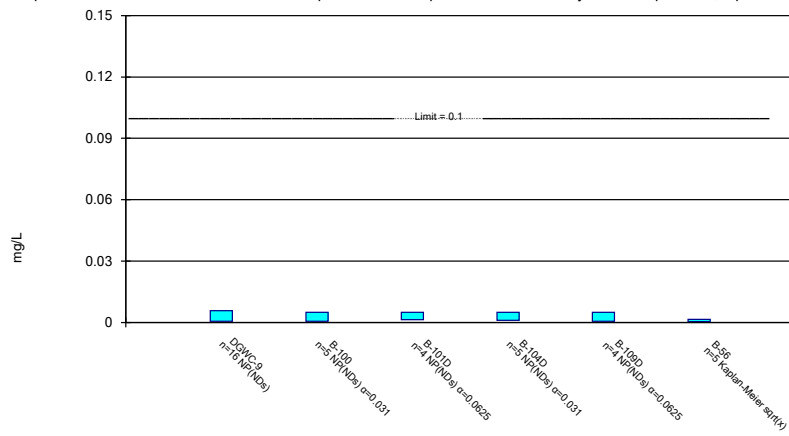
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

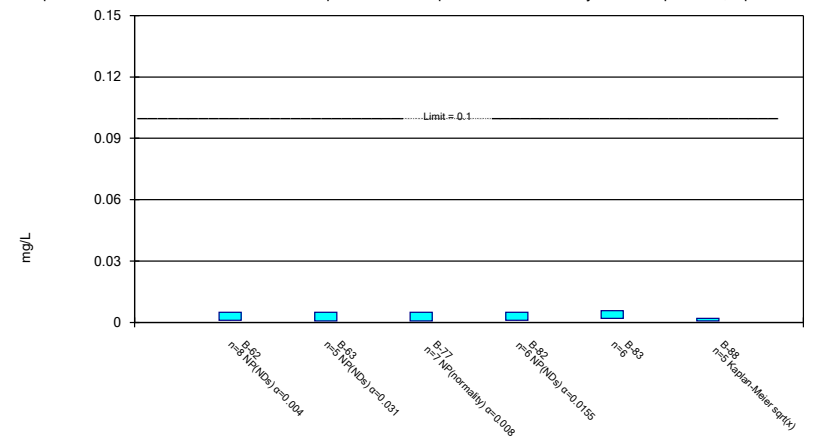
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

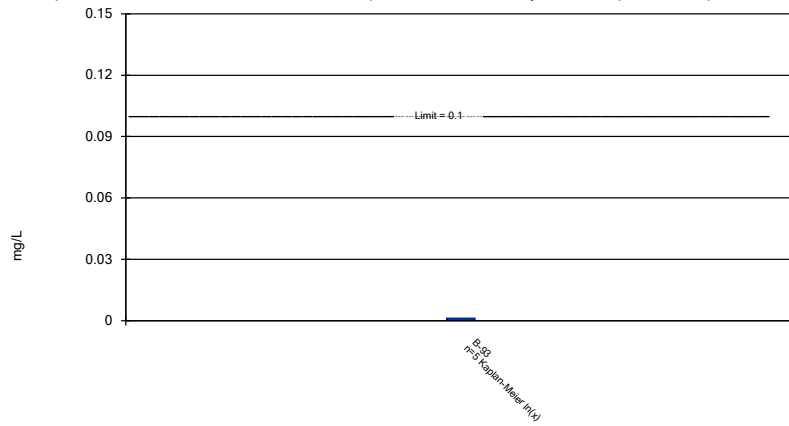
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

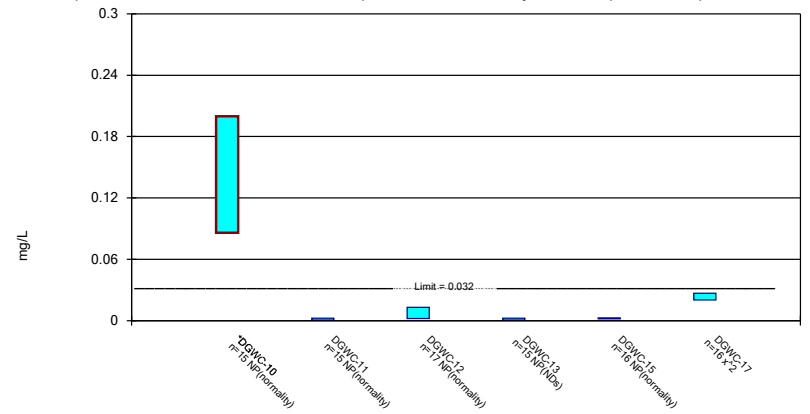
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

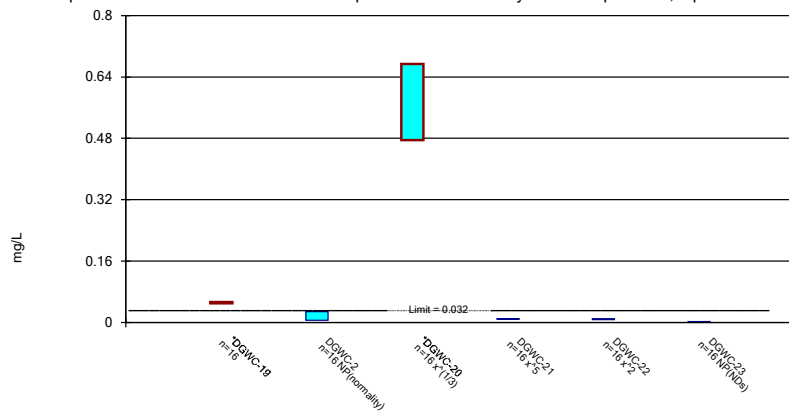
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

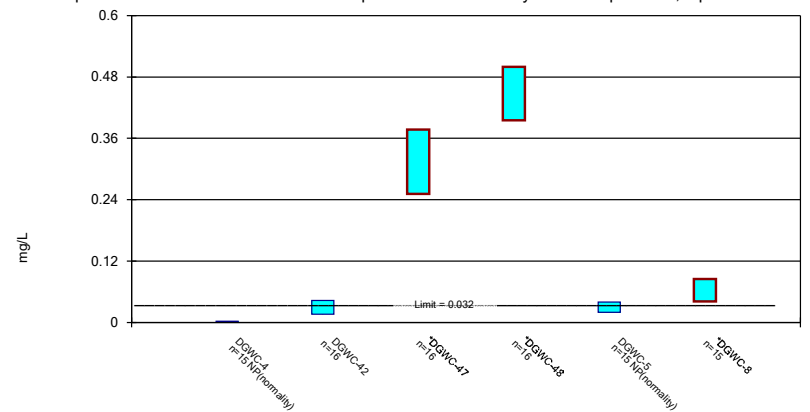
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

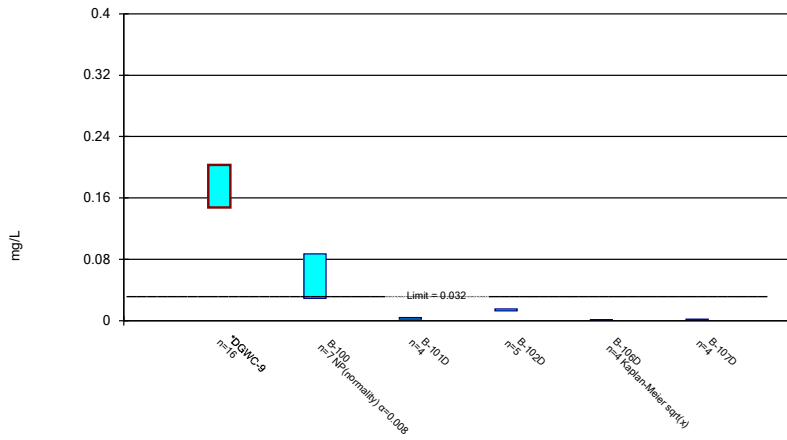
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

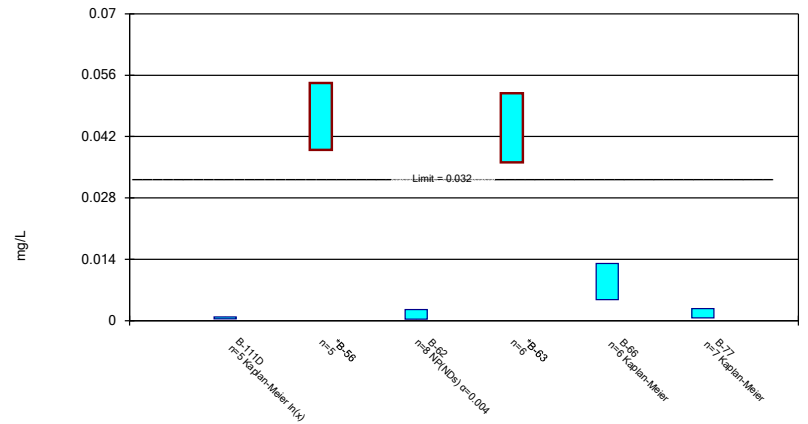
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

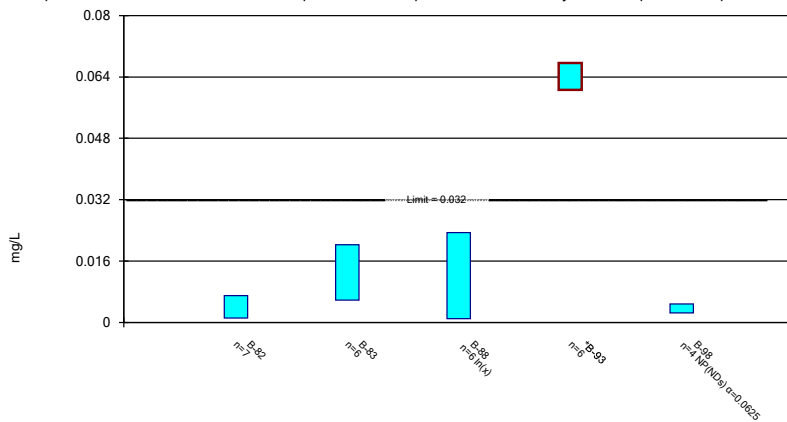
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

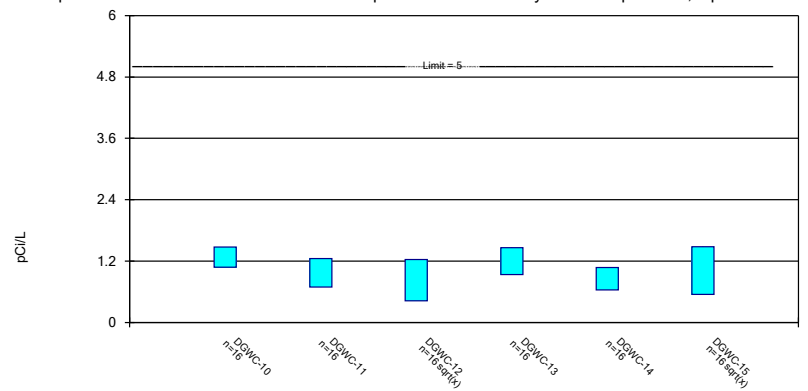
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

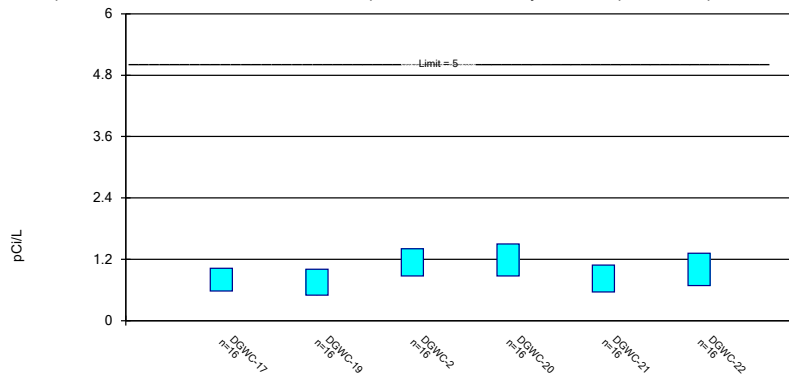
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

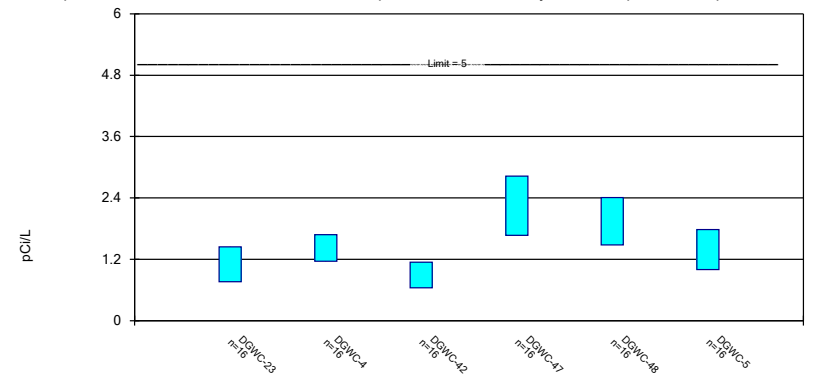
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

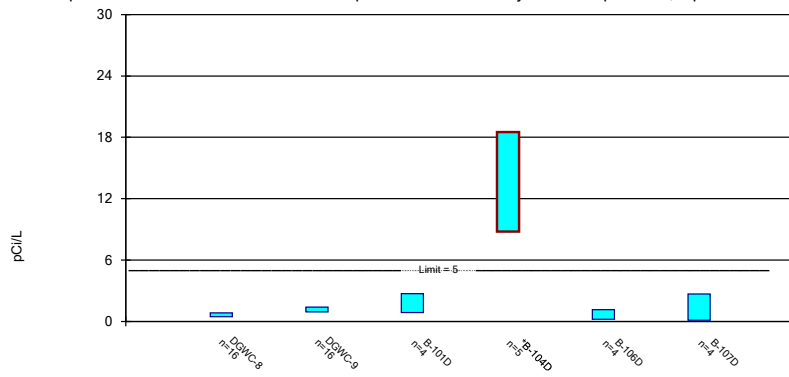
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

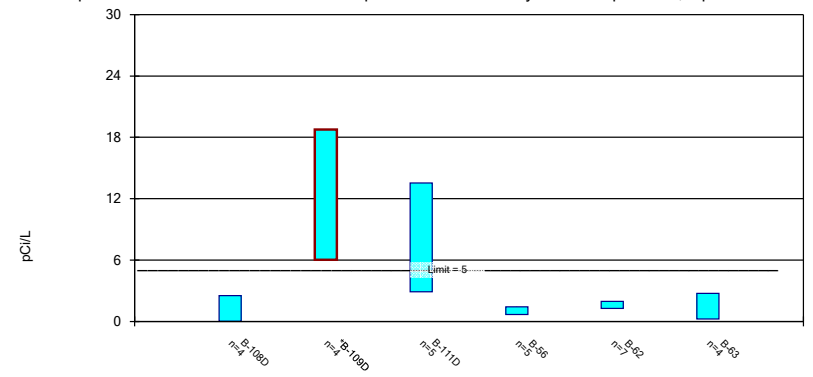
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

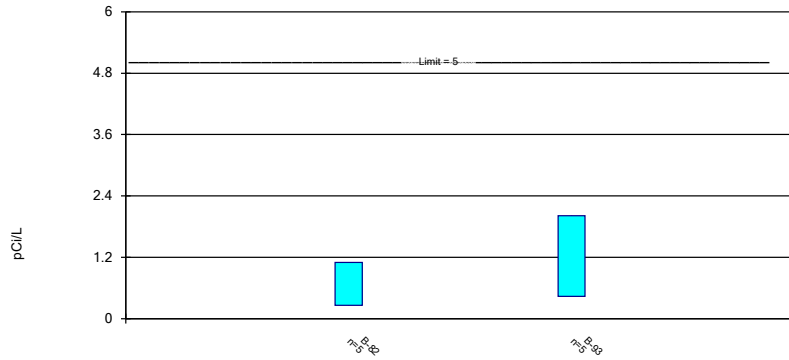
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

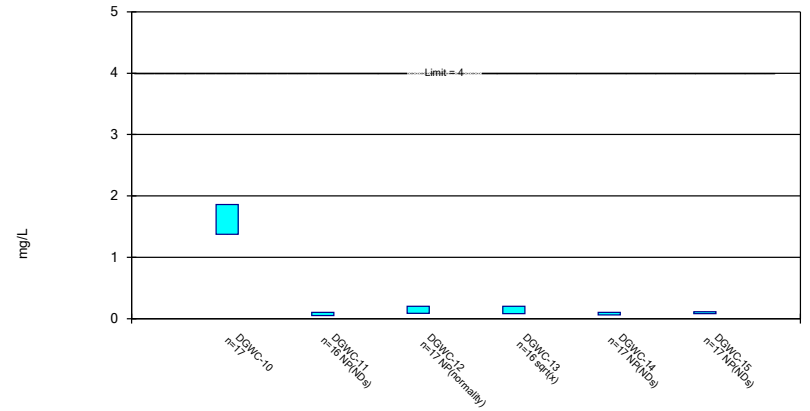
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

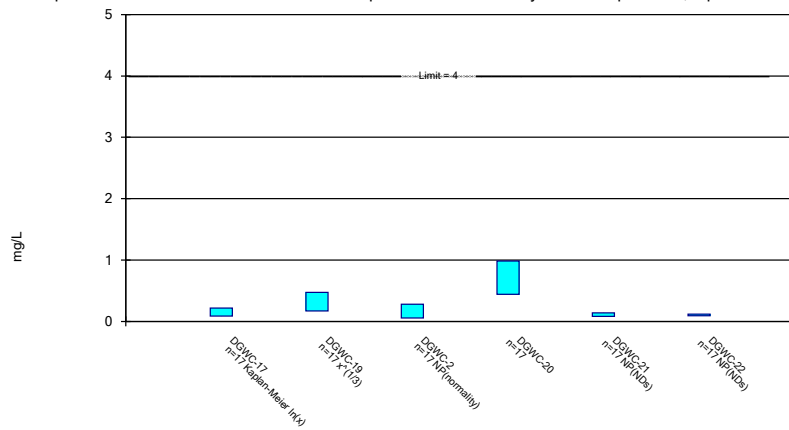
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

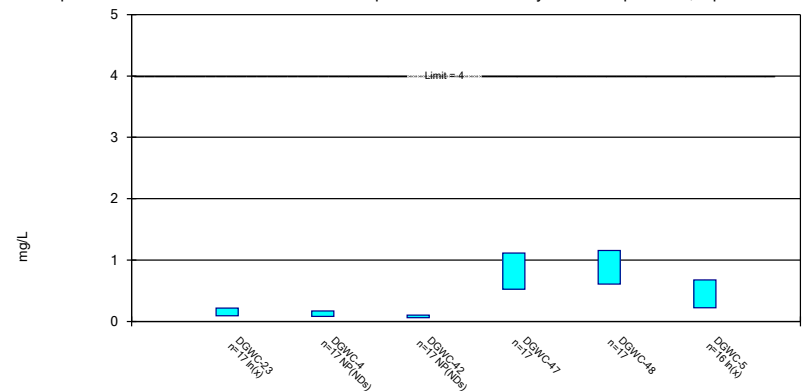
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

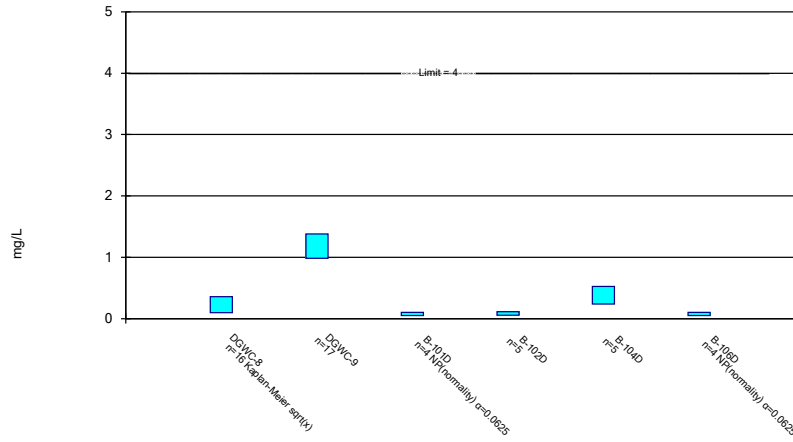
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

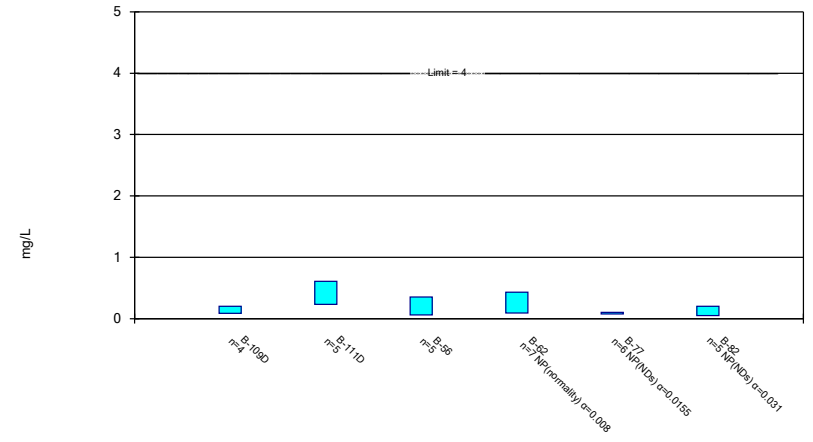
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

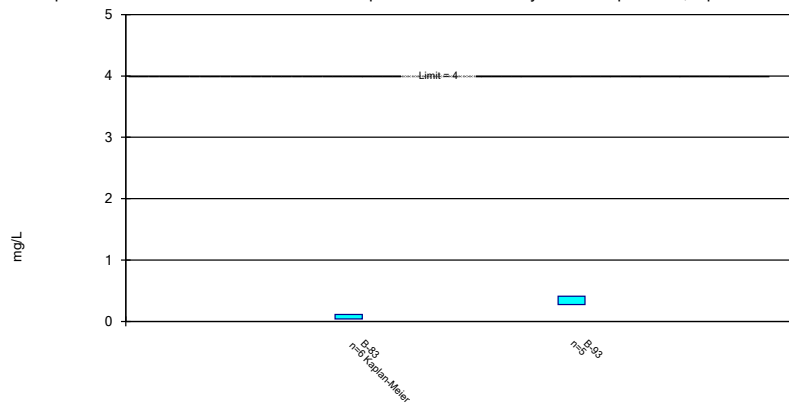
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

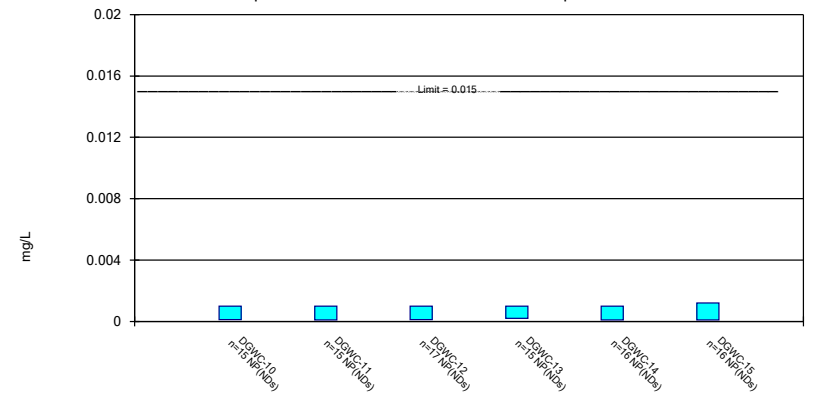
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

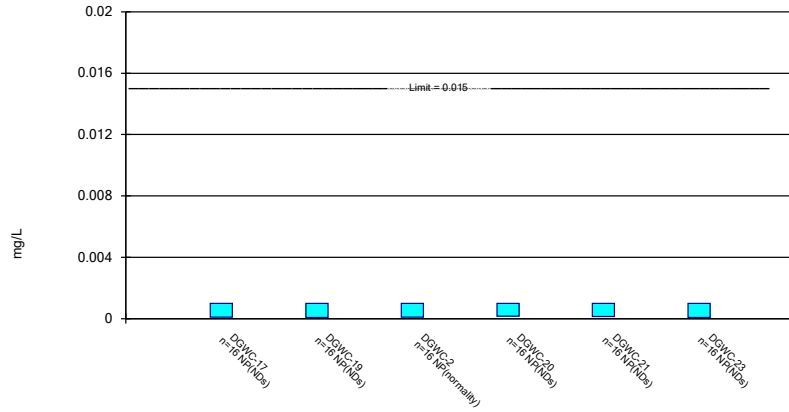
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

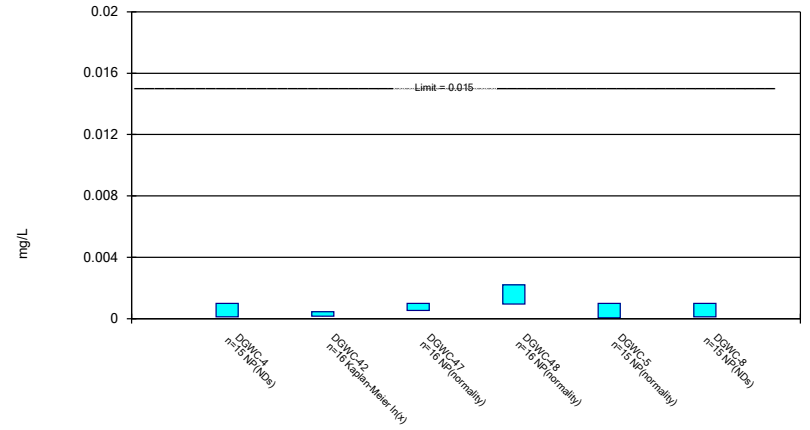
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

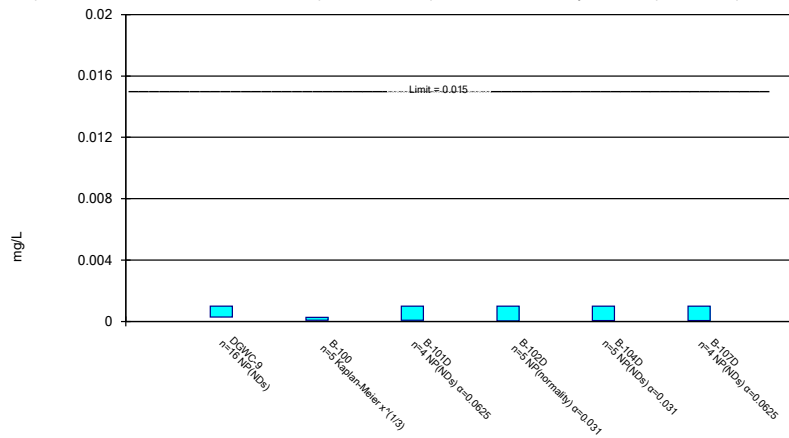
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

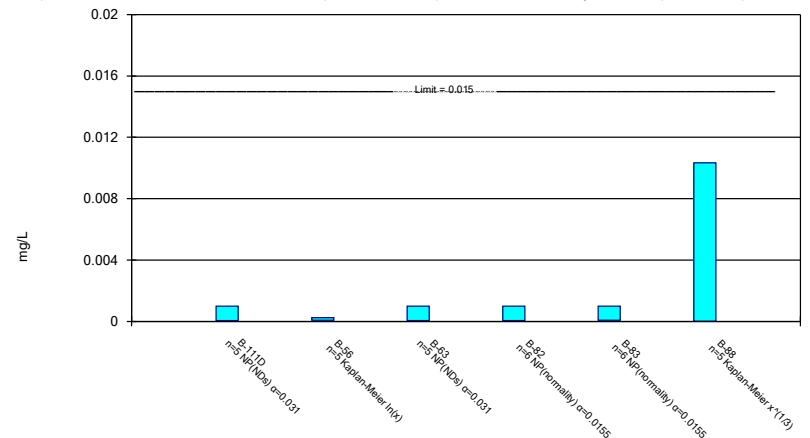
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

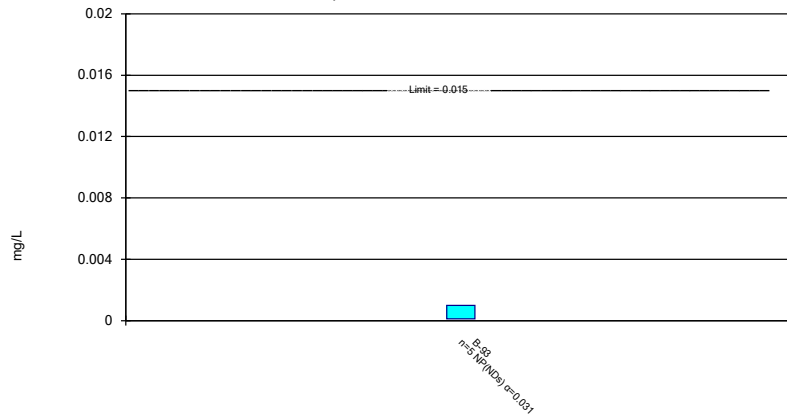
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

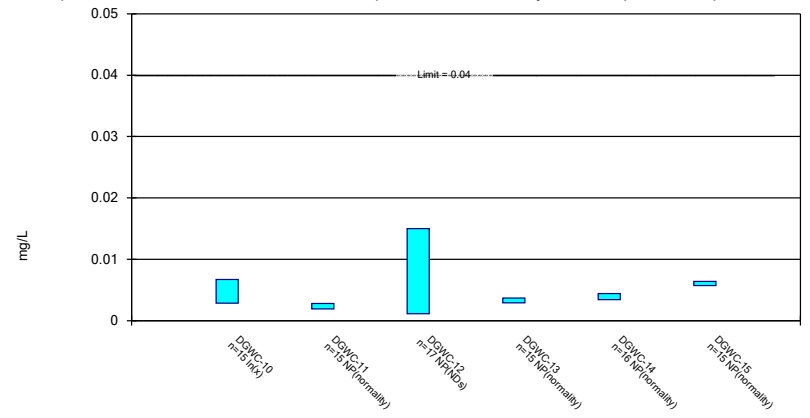
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

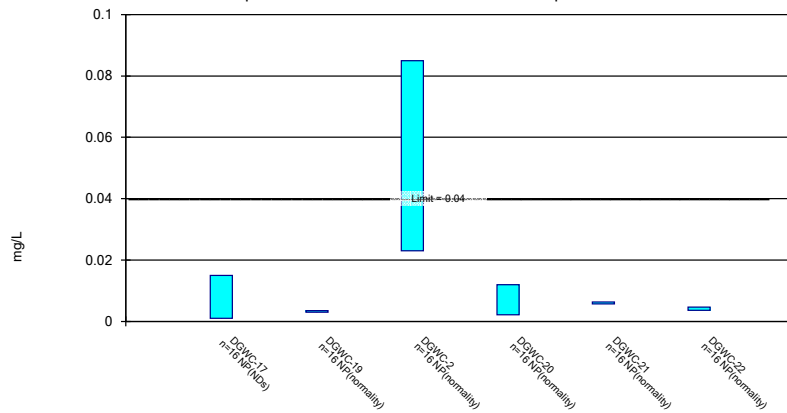
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

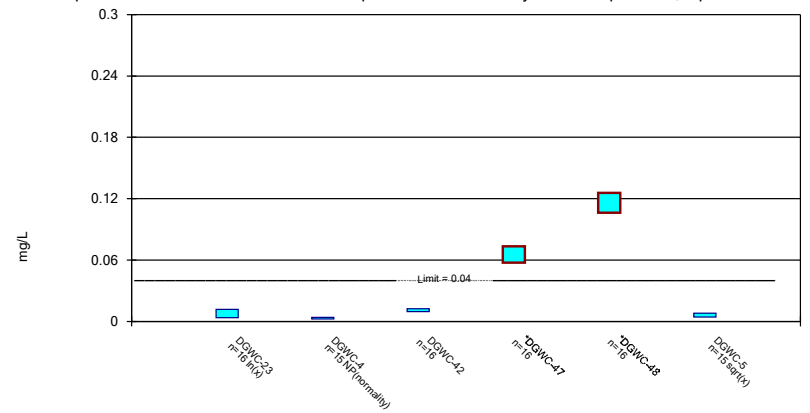
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

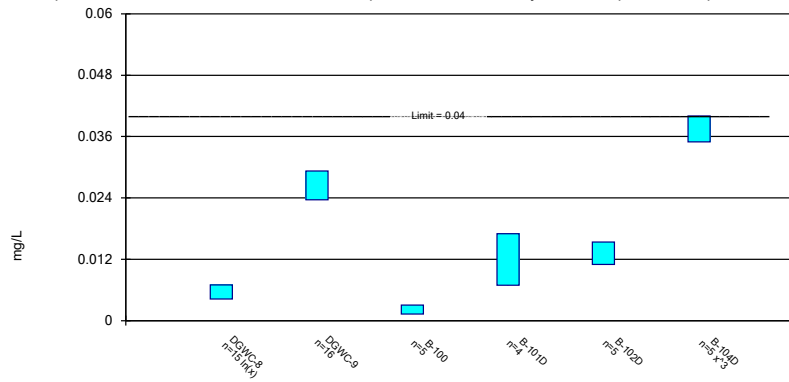
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

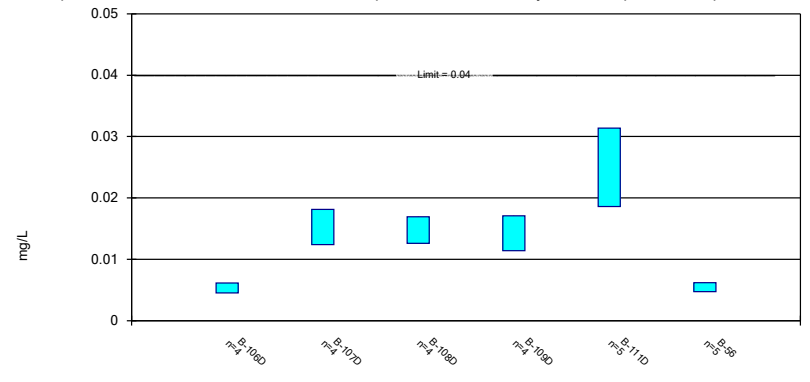
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

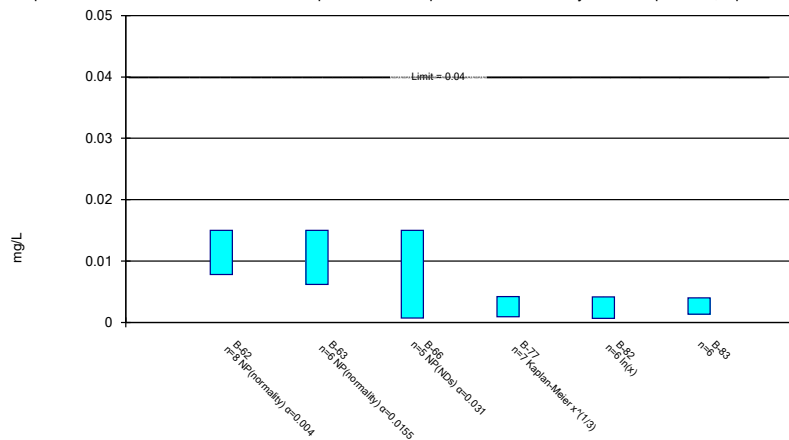
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

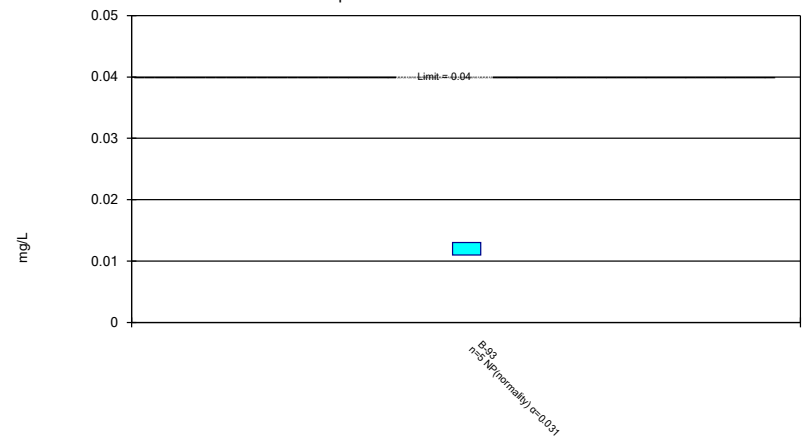
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

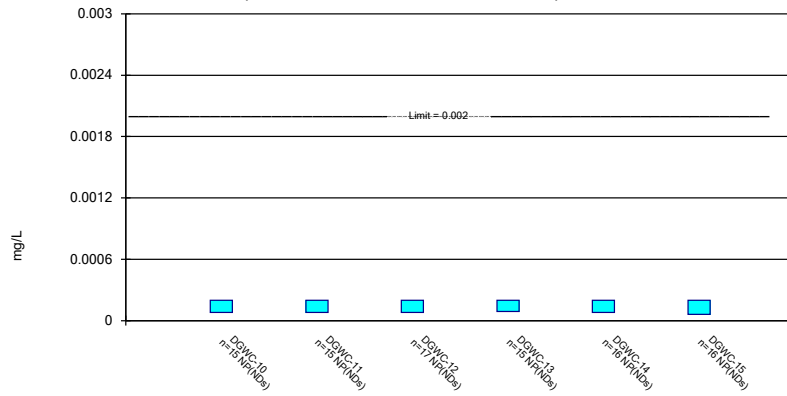
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

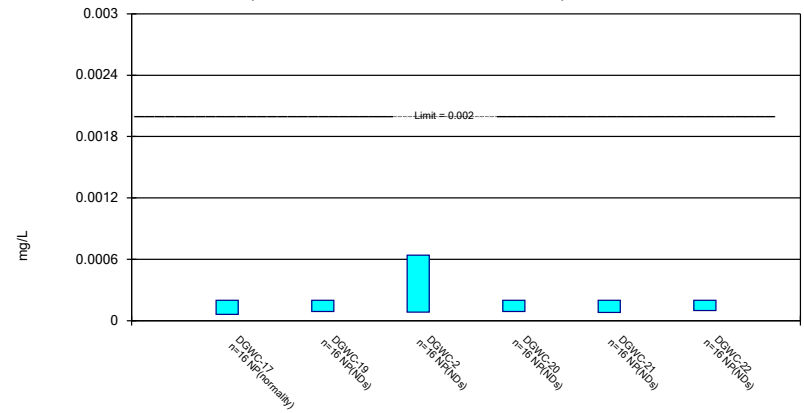
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

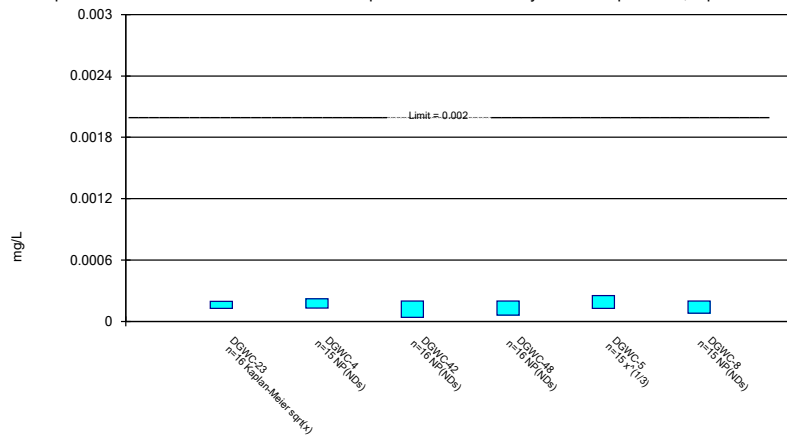
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

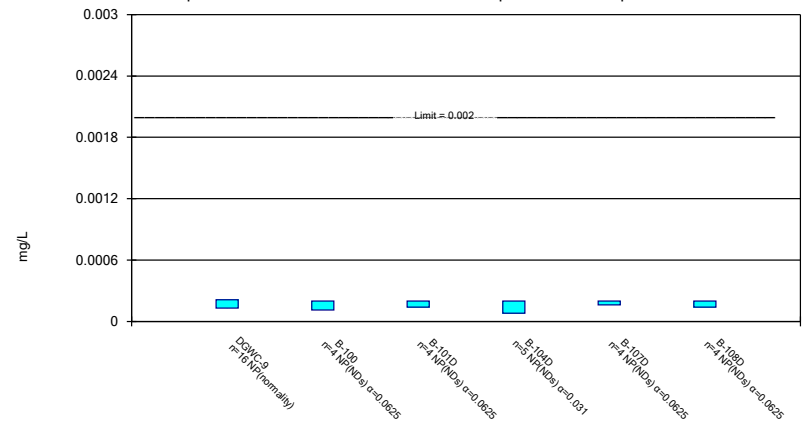
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

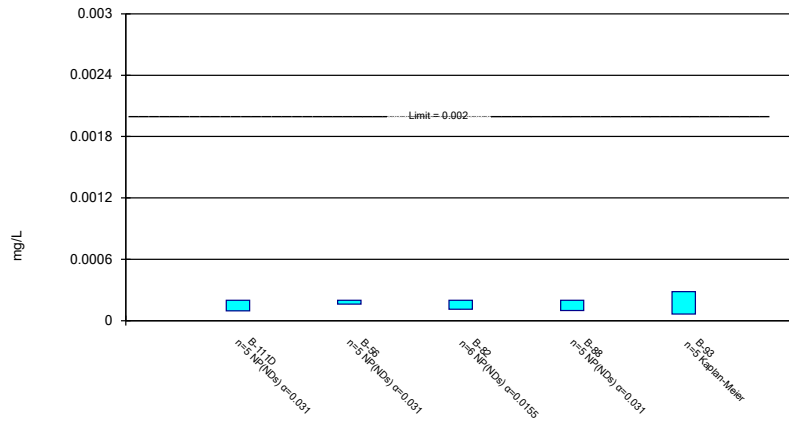
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

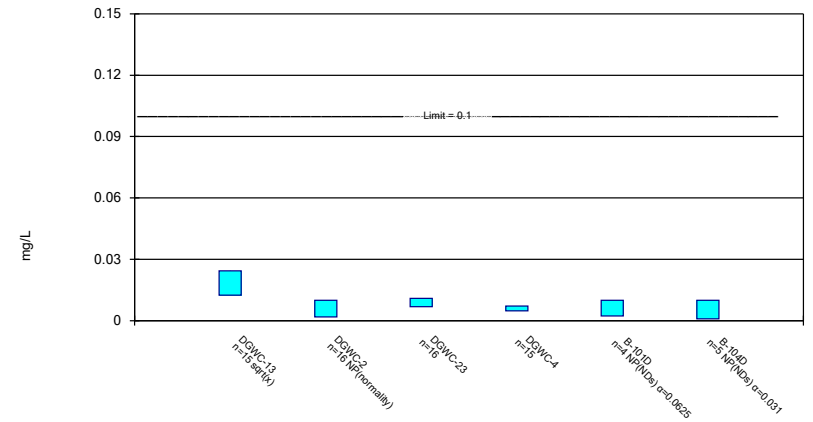
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

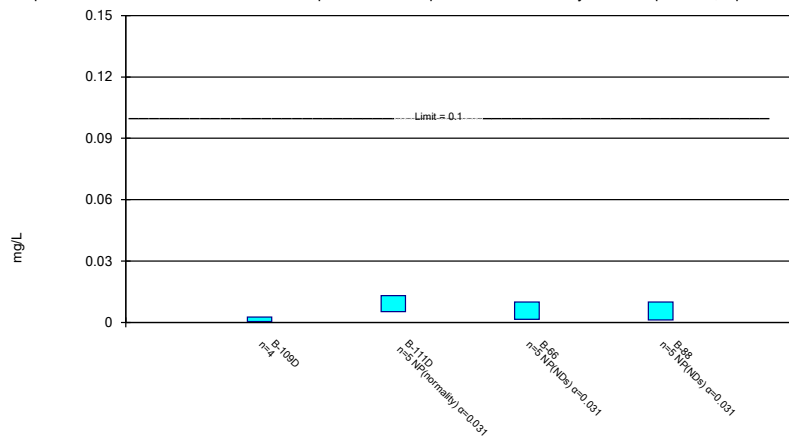
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

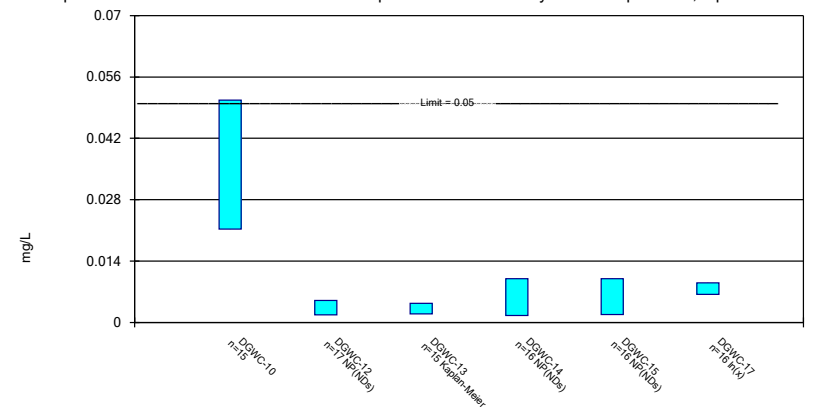
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

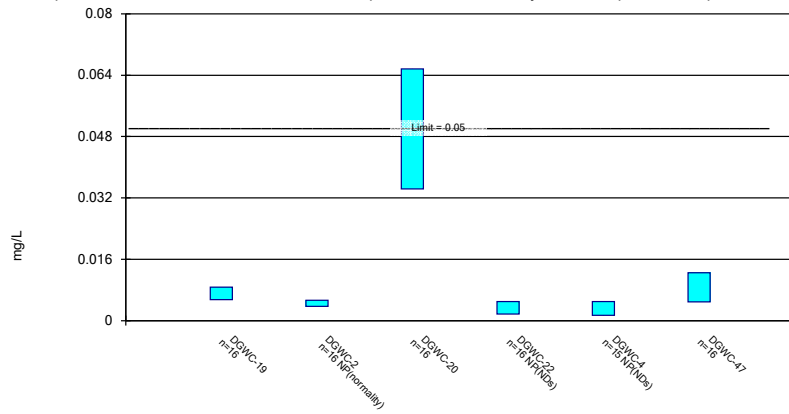
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

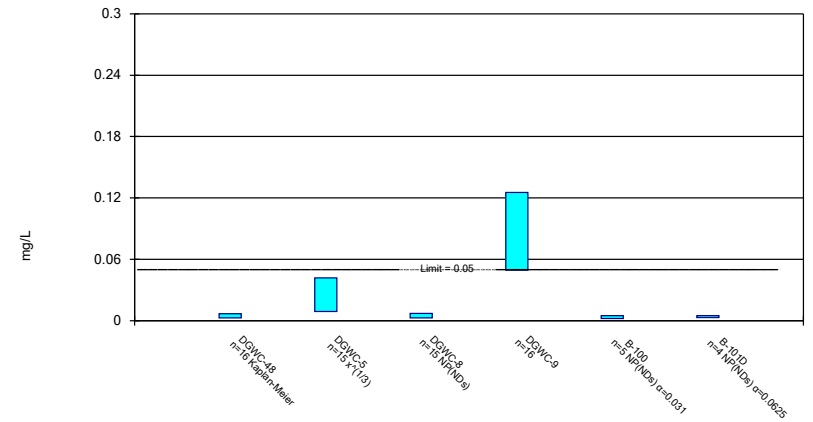
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

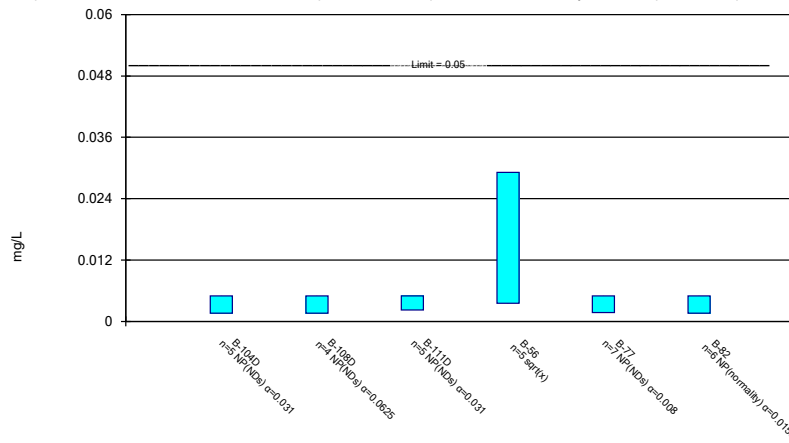
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

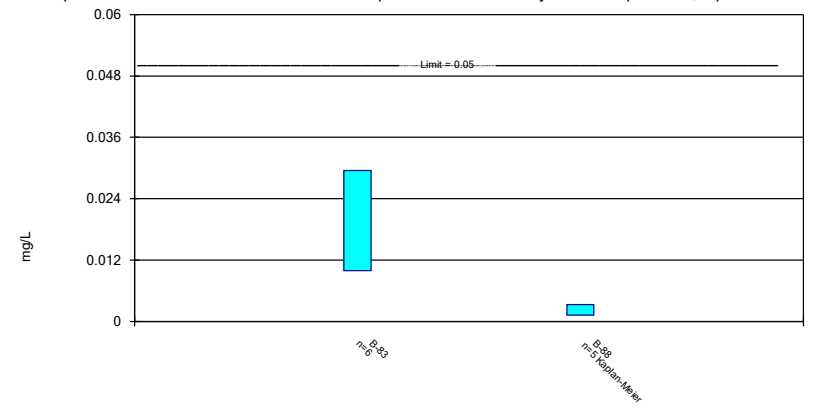
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	<0.003		<0.003			
9/1/2016		<0.003				<0.003
9/6/2016				<0.003		
9/7/2016					<0.003	
12/6/2016	<0.003		<0.003			
12/7/2016		<0.003		<0.003		<0.003
12/8/2016					<0.003	
3/29/2017	<0.003	<0.003	<0.003			<0.003
3/30/2017				<0.003	<0.003	
7/12/2017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/24/2017	<0.003					
10/25/2017		<0.003	<0.003	<0.003	<0.003	<0.003
2/27/2018	<0.003	<0.003	<0.003			
2/28/2018				<0.003	<0.003	<0.003
7/11/2018		<0.003	<0.003	<0.003	<0.003	<0.003
11/6/2018	<0.003					
11/7/2018		<0.003	<0.003	<0.003	<0.003	<0.003
8/27/2019	<0.003	<0.003	<0.003		<0.003	
8/28/2019				0.00033 (J)		<0.003
9/17/2019		<0.003				
10/15/2019	<0.003	<0.003				
10/16/2019			<0.003			<0.003
10/17/2019				<0.003		
10/18/2019					<0.003	
3/2/2020		0.0003 (J)				
3/3/2020	<0.003		<0.003	<0.003		<0.003
3/4/2020					<0.003	
8/11/2020	<0.003	<0.003	<0.003			<0.003
8/13/2020				0.00073 (J)		
8/14/2020					<0.003	
9/22/2020		<0.003	0.0011 (J)			0.00036 (J)
9/23/2020				<0.003		
9/24/2020	<0.003				0.00045 (J)	
3/2/2021			<0.003	<0.003		<0.003
3/3/2021		<0.003			<0.003	
3/4/2021	<0.003					
9/9/2021		<0.003	<0.003	<0.003		<0.003
9/10/2021	<0.003					
9/13/2021					<0.003	
1/24/2022				<0.003	<0.003	
1/25/2022		<0.003	<0.003			<0.003
1/26/2022	0.0021 (J)					
Mean	0.00294	0.002841	0.002881	0.002691	0.002841	0.002835
Std. Dev.	0.0002324	0.0006548	0.000475	0.0008468	0.0006375	0.00066
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0021	0.0003	0.0011	0.00073	0.00045	0.00036

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48
9/1/2016					<0.003	<0.003
9/2/2016		<0.003				
12/8/2016		<0.003			<0.003	<0.003
3/28/2017				<0.003		
3/30/2017	<0.003	<0.003	<0.003			<0.003
3/31/2017					<0.003	
5/11/2017	<0.003					
5/12/2017			<0.003	<0.003		
6/15/2017	0.0006 (J)		0.0007 (J)	0.0008 (J)		
7/11/2017	<0.003			<0.003		
7/12/2017		<0.003	<0.003			
7/13/2017					<0.003	<0.003
10/24/2017	<0.003			<0.003		
10/25/2017		<0.003				
10/26/2017			<0.003		<0.003	<0.003
2/27/2018	<0.003			<0.003		
2/28/2018		<0.003				
3/1/2018			<0.003		<0.003	
3/2/2018						<0.003
7/11/2018	<0.003	0.0013 (J)				
7/12/2018			<0.003		<0.003	<0.003
11/6/2018	<0.003			<0.003		
11/7/2018		<0.003			<0.003	<0.003
11/8/2018			<0.003			
8/27/2019	<0.003			<0.003		
8/29/2019		<0.003	<0.003		<0.003	<0.003
10/15/2019				<0.003		
10/17/2019	<0.003	<0.003			<0.003	
10/18/2019			<0.003			<0.003
3/2/2020				0.00058 (J)		
3/3/2020	<0.003	<0.003				
3/4/2020			<0.003		<0.003	<0.003
8/11/2020	<0.003					
8/12/2020				<0.003	<0.003	
8/13/2020			<0.003			<0.003
8/14/2020		<0.003				
9/22/2020				<0.003		
9/23/2020	<0.003				0.0012 (J)	0.00039 (J)
9/24/2020		<0.003	<0.003			
3/1/2021				0.00049 (J)		
3/2/2021	<0.003					
3/3/2021		<0.003	<0.003		<0.003	<0.003
9/9/2021	<0.003	<0.003	<0.003			
9/10/2021				<0.003	<0.003	0.0018 (J)
1/20/2022	<0.003	<0.003	<0.003			
1/21/2022					<0.003	
1/24/2022				<0.003		<0.003
Mean	0.00285	0.002894	0.002856	0.002525	0.002888	0.002762
Std. Dev.	0.0006	0.000425	0.000575	0.0009859	0.00045	0.0006998
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.0013	0.0007	0.0008	0.0012	0.0018

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-5	DGWC-8	B-100	B-102D	B-104D	B-106D
8/30/2016		<0.003				
8/31/2016	<0.003					
12/6/2016	<0.003	<0.003				
3/28/2017	<0.003					
3/29/2017		<0.003				
7/11/2017	<0.003	<0.003				
10/24/2017		<0.003				
10/25/2017	<0.003					
2/27/2018	<0.003	<0.003				
11/6/2018	<0.003	<0.003				
8/27/2019	<0.003					
8/28/2019		<0.003				
10/16/2019	<0.003	<0.003				
3/2/2020	0.00032 (J)					
3/3/2020		<0.003				
8/12/2020	<0.003	<0.003				
8/17/2020			0.0013 (J)			
9/22/2020	<0.003					
9/23/2020		<0.003				
9/25/2020			<0.003			
12/9/2020					0.00079 (J)	
12/17/2020				0.0016 (J)		0.00048 (J)
1/11/2021				<0.003		
1/12/2021					0.00048 (J)	
3/2/2021	0.0015 (J)	0.00046 (J)				
3/4/2021				<0.003	0.00077 (J)	<0.003
3/8/2021			0.0017 (J)			
9/10/2021	<0.003			<0.003		
9/13/2021		<0.003	<0.003			<0.003
9/14/2021					<0.003	
1/21/2022			<0.003			
1/24/2022	<0.003				0.001 (J)	
1/25/2022		<0.003				<0.003
1/27/2022				<0.003		
Mean	0.002721	0.002831	0.0024	0.00272	0.001208	0.00237
Std. Dev.	0.0007685	0.0006558	0.0008337	0.0006261	0.001019	0.00126
Upper Lim.	0.003	0.003	0.003	0.003	0.001115	0.003
Lower Lim.	0.0015	0.00046	0.0013	0.0016	0.0004656	0.00048

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-62	B-63	B-77	B-93
1/28/2019				<0.003		
1/30/2019			<0.003			
9/11/2019			<0.003	<0.003		
9/18/2019					<0.003	
10/21/2019			<0.003			
10/22/2019				0.00066 (J)		
10/24/2019					<0.003	
8/13/2020			<0.003		0.00043 (J)	
8/17/2020		<0.003				
8/19/2020						<0.003
9/24/2020			0.00046 (J)		0.00036 (J)	
9/28/2020		<0.003				0.0014 (J)
12/9/2020	<0.003					
1/12/2021	<0.003					
3/3/2021		<0.003				
3/4/2021					0.00063 (J)	
3/5/2021	0.0006 (J)					
3/9/2021						<0.003
3/12/2021			<0.003			
9/9/2021			<0.003			
9/13/2021		<0.003				
9/14/2021	<0.003			<0.003	<0.003	
9/15/2021						<0.003
1/20/2022			<0.003	<0.003	<0.003	
1/24/2022	<0.003					
1/26/2022						<0.003
1/27/2022		0.0011 (J)				
Mean	0.00252	0.00262	0.002683	0.002532	0.001917	0.00268
Std. Dev.	0.001073	0.0008497	0.000898	0.001046	0.001353	0.0007155
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.0011	0.00046	0.00066	0.00036	0.0014

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	0.0058		<0.005			
9/1/2016		<0.005				0.0022 (J)
9/6/2016				<0.005		
9/7/2016					<0.005	
12/6/2016	0.0017 (J)		<0.005			
12/7/2016		<0.005		<0.005		<0.005
12/8/2016					<0.005	
3/29/2017	0.0055	<0.005	<0.005			0.002 (J)
3/30/2017				0.0006 (J)	0.0008 (J)	
7/12/2017	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	0.0058					
10/25/2017		0.0006 (J)	<0.005	<0.005	0.0007 (J)	0.0022 (J)
2/27/2018	0.0105	<0.005	<0.005			
2/28/2018				<0.005	0.00073 (J)	0.0028 (J)
7/11/2018		<0.005	<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005 (J)					
11/7/2018		<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019				<0.005		0.00049 (J)
9/17/2019		<0.005				
10/15/2019	0.0078	0.00063 (J)				
10/16/2019			0.00039 (J)			0.00046 (J)
10/17/2019				0.00064 (J)		
10/18/2019					0.0012 (J)	
3/2/2020		<0.005				
3/3/2020	0.0025 (J)		<0.005	<0.005		<0.005
3/4/2020					0.0014 (J)	
8/11/2020	0.0028 (J)	<0.005	<0.005			0.0014 (J)
8/13/2020				0.0013 (J)		
8/14/2020					<0.005	
9/22/2020		<0.005	<0.005			0.0017 (J)
9/23/2020				<0.005		
9/24/2020	0.0078				0.0011 (J)	
3/2/2021			<0.005	<0.005		0.0013 (J)
3/3/2021		<0.005			<0.005	
3/4/2021	0.006					
9/9/2021		<0.005	<0.005	<0.005		0.0027 (J)
9/10/2021	0.0076					
9/13/2021					<0.005	
1/24/2022				<0.005	0.0014 (J)	
1/25/2022		<0.005	<0.005			0.0014 (J)
1/26/2022	0.0043 (J)					
Mean	0.005313	0.004484	0.004712	0.004221	0.003271	0.002259
Std. Dev.	0.002444	0.001456	0.001152	0.00168	0.002034	0.001516
Upper Lim.	0.006969	0.005	0.005	0.005	0.005	0.001941
Lower Lim.	0.003657	0.00063	0.00039	0.0013	0.0008	0.000939

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
1/20/2022	0.0023 (J)		<0.005		<0.005	
1/21/2022		0.015				0.0036 (J)
1/24/2022				0.0011 (J)		
Mean	0.004424	0.01226	0.00475	0.00386	0.004487	0.002687
Std. Dev.	0.001273	0.006572	0.001	0.001961	0.001402	0.001474

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
Upper Lim.	0.005	0.01654	0.005	0.005	0.005	0.002781
Lower Lim.	0.0025	0.007987	0.001	0.0008	0.0011	0.001442

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-101D	B-104D
8/30/2016			<0.005	0.0241		
8/31/2016		0.0035 (J)				
9/1/2016	<0.005					
12/6/2016		0.0032 (J)	<0.005	<0.005		
12/8/2016	<0.005					
3/28/2017		0.0385		0.0243		
3/29/2017			0.001 (J)			
3/30/2017	0.0015 (J)					
7/11/2017		0.0203	0.0012 (J)	0.0194		
7/13/2017	0.0012 (J)					
10/24/2017			0.0015 (J)	0.0249		
10/25/2017		0.0119				
10/26/2017	0.0008 (J)					
2/27/2018		0.0094	0.002 (J)	0.0405		
3/2/2018	0.0017 (J)					
7/11/2018				0.016		
7/12/2018	0.0015 (J)					
11/6/2018		<0.005	<0.005	0.017		
11/7/2018	<0.005					
8/27/2019		<0.005		0.021		
8/28/2019			<0.005			
8/29/2019	<0.005					
10/16/2019		0.0036 (J)	<0.005			
10/17/2019				0.033		
10/18/2019	0.00079 (J)					
3/2/2020		0.0052				
3/3/2020			0.00096 (J)	0.015		
3/4/2020	0.0006 (J)					
8/11/2020				0.022		
8/12/2020		0.002 (J)	<0.005			
8/13/2020	<0.005					
9/22/2020		0.0062		0.04		
9/23/2020	<0.005		<0.005			
12/9/2020						<0.005
1/12/2021					<0.005	<0.005
3/2/2021		0.0013 (J)	<0.005	0.021		
3/3/2021	<0.005					
3/4/2021						0.0025 (J)
3/5/2021					0.0017 (J)	
9/10/2021	<0.005	0.0031 (J)		0.031		
9/13/2021			<0.005		<0.005	
9/14/2021						0.0019 (J)
1/24/2022	<0.005	0.0019 (J)				0.0035 (J)
1/25/2022			<0.005			
1/26/2022				0.012	<0.005	
Mean	0.003318	0.008007	0.003777	0.02289	0.004175	0.00358
Std. Dev.	0.001988	0.009756	0.001805	0.009597	0.00165	0.001417
Upper Lim.	0.005	0.00948	0.005	0.02913	0.005	0.003739
Lower Lim.	0.0008	0.002765	0.0012	0.01664	0.0017	0.001527

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	B-56	B-62	B-63	B-77
1/28/2019					<0.005	
1/30/2019				<0.005		
9/11/2019				<0.005	<0.005	
9/18/2019						<0.005
10/21/2019				<0.005		
10/22/2019					<0.005	
10/24/2019						0.0029 (J)
8/13/2020				<0.005		0.002 (J)
8/17/2020			0.0032 (J)			
9/24/2020				<0.005		0.0025 (J)
9/28/2020			0.0047 (J)			
12/9/2020		<0.005				
1/12/2021		<0.005				
1/13/2021	<0.005					
3/3/2021			0.003 (J)			
3/4/2021						0.002 (J)
3/5/2021		0.0023 (J)				
3/8/2021	<0.005					
3/12/2021				<0.005		
9/9/2021				<0.005		
9/10/2021	<0.005					
9/13/2021			0.0031 (J)			
9/14/2021		0.0029 (J)			<0.005	<0.005
1/20/2022	0.0026 (J)			0.0033 (J)	0.0022 (J)	0.003 (J)
1/24/2022		0.0022 (J)				
1/27/2022			0.0045 (J)			
Mean	0.0044	0.00348	0.0037	0.004787	0.00444	0.0032
Std. Dev.	0.0012	0.001413	0.0008276	0.000601	0.001252	0.00129
Upper Lim.	0.005	0.002994	0.0047	0.005	0.005	0.002995
Lower Lim.	0.0026	0.001984	0.003	0.0033	0.0022	0.00198

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-93
9/23/2019	<0.005		
10/21/2019	<0.005	<0.005	
8/14/2020		<0.005	
8/17/2020	<0.005		
8/19/2020			0.0013 (J)
9/25/2020		<0.005	
9/28/2020	<0.005		0.0027 (J)
3/4/2021		<0.005	
3/9/2021			<0.005
3/12/2021	<0.005		
9/14/2021	<0.005		
9/15/2021			<0.005
9/16/2021		<0.005	
1/21/2022		0.0014 (J)	
1/25/2022	0.003 (J)		
1/26/2022			0.002 (J)
Mean	0.004714	0.0044	0.0032
Std. Dev.	0.0007559	0.00147	0.001716
Upper Lim.	0.005	0.005	0.002958
Lower Lim.	0.003	0.0014	0.001042

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0321	0.0545			0.0576	
9/1/2016			0.0254			
9/6/2016				0.0297		0.0497
12/6/2016	0.029	0.0564			0.0608	
12/7/2016			0.0241	0.0266		0.0469
3/29/2017	0.0335	0.0565	0.0268		0.0693	
3/30/2017				0.0308		0.0495
7/12/2017	0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
10/24/2017	0.0317	0.0596				
10/25/2017			0.0268		0.0563	0.0474
11/15/2017				0.0309		
2/27/2018	0.028	0.0672	0.0255		0.0591	
2/28/2018				<0.01		0.0455
7/11/2018			0.026		0.061	0.05
11/6/2018	0.025	0.074				
11/7/2018			0.028	0.034	0.055	0.042
8/27/2019	0.021	0.071	0.024		0.059	
8/28/2019				0.033		0.047
9/17/2019			0.02			
10/15/2019	0.024	0.064	0.02			
10/16/2019				0.034	0.059	
10/17/2019						0.046
3/2/2020		0.071	0.04			
3/3/2020	0.024			0.035	0.064	0.05
8/11/2020	0.024	0.064	0.028		0.061	
8/12/2020				0.032		
8/13/2020						0.06
9/22/2020		0.058	0.036		0.06	
9/23/2020				0.03		0.043
9/24/2020	0.021					
3/2/2021		0.052		0.03	0.064	0.043
3/3/2021			0.035			
3/4/2021	0.025					
9/9/2021		0.054	0.04	0.027	0.059	0.041
9/10/2021	0.019					
1/24/2022						0.041
1/25/2022		0.047	0.054	0.028	0.064	
1/26/2022	0.022					
Mean	0.02605	0.06043	0.02975	0.02901	0.06048	0.04711
Std. Dev.	0.004606	0.007817	0.008686	0.007107	0.003503	0.004864
Upper Lim.	0.02917	0.06572	0.03386	0.03263	0.06275	0.05027
Lower Lim.	0.02293	0.05513	0.02441	0.02737	0.0582	0.04394

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
9/2/2016				0.0097 (J)	0.0252	0.0397
9/7/2016	0.0694					
12/7/2016		0.0191		0.0087 (J)		
12/8/2016	0.062				0.0262	0.0408
3/29/2017		0.0209		0.0094 (J)		0.0417
3/30/2017	0.0615		0.0232		0.0272	
5/11/2017			0.0231			
6/15/2017			0.0223			
7/11/2017			0.0201			
7/12/2017	0.0532	0.0212		0.0099 (J)	0.0276	
7/13/2017						0.0376
10/24/2017			0.0206			
10/25/2017	0.0544	0.021		0.0096 (J)	0.0262	0.0384
2/27/2018			0.0207			
2/28/2018	0.0527	0.0213		<0.01	0.027	0.0353
7/11/2018	0.053	0.023	0.022	0.01	0.027	
7/12/2018						0.036
11/6/2018			0.021			
11/7/2018	0.044	0.024		0.011	0.024	0.031
8/27/2019	0.05		0.023			
8/28/2019		0.026				
8/29/2019				0.018	0.027	0.031
10/16/2019		0.024				
10/17/2019			0.022	0.015	0.027	
10/18/2019	0.045					0.032
3/3/2020		0.028	0.022		0.027	0.035
3/4/2020	0.044			0.017		
8/11/2020		0.027	0.022			
8/13/2020				0.019		
8/14/2020	0.046				0.027	0.035
9/22/2020		0.026		0.011		
9/23/2020			0.023			
9/24/2020	0.033				0.024	0.031
3/2/2021		0.026	0.023	0.021		
3/3/2021	0.036				0.024	0.031
9/9/2021		0.025	0.022		0.023	
9/10/2021				0.0098		0.027
9/13/2021	0.031					
1/20/2022			0.022		0.024	0.029
1/21/2022				0.018		
1/24/2022	0.031					
1/25/2022		0.026				
Mean	0.04789	0.02374	0.022	0.01263	0.02584	0.03447
Std. Dev.	0.01139	0.002664	0.0009661	0.004637	0.001534	0.004386
Upper Lim.	0.0553	0.02548	0.02263	0.01565	0.0272	0.03732
Lower Lim.	0.04047	0.02201	0.02137	0.009614	0.024	0.03162

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (O)
9/1/2016				0.0162	0.0157	
9/7/2016			0.0194			
12/6/2016						0.0186
12/8/2016			0.0189	0.0247	0.0155	
3/28/2017		0.0363				0.0187
3/30/2017	0.0184				0.0131	
3/31/2017			0.0194	0.0189		
5/12/2017	0.0202	0.0337				
6/15/2017	0.0188	0.03				
7/11/2017		0.0301				0.0174 (J)
7/12/2017	0.0186					
7/13/2017			0.021	0.0165	0.014	
10/24/2017		0.0351				
10/25/2017			0.0196			0.0175
10/26/2017	0.0176			0.0152	0.0117	
2/27/2018		0.0364				0.0172
2/28/2018			0.0171			
3/1/2018	0.0164			0.0164		
3/2/2018					0.0131	
7/11/2018			0.02			
7/12/2018	0.022			0.015	0.013	
11/6/2018		0.035				0.016
11/7/2018			0.017	0.02	0.014	
11/8/2018	0.022					
8/27/2019		0.036				0.017
8/28/2019			0.018			
8/29/2019	0.025			0.018	0.014	
10/15/2019		0.033				
10/16/2019						0.02
10/17/2019			0.018	0.019		
10/18/2019	0.019				0.014	
3/2/2020		0.036				0.018
3/4/2020	0.032		0.015	0.017	0.014	
8/12/2020		0.036		0.016		0.017
8/13/2020	0.027		0.027		0.013	
9/22/2020		0.03	0.016			0.017
9/23/2020				0.014	0.013	
9/24/2020	0.02					
3/1/2021		0.039				
3/2/2021						0.017
3/3/2021	0.019		0.015	0.02	0.014	
9/9/2021	0.021					
9/10/2021		0.032		0.021	0.013	0.015
9/13/2021			0.014			
1/20/2022	0.024		0.014			
1/21/2022				0.017		
1/24/2022		0.035			0.014	0.018
Mean	0.02131	0.03424	0.01809	0.01781	0.01369	0.01746
Std. Dev.	0.004018	0.002708	0.003235	0.002708	0.0009849	0.001208
Upper Lim.	0.02371	0.03608	0.02019	0.01957	0.0155	0.01831
Lower Lim.	0.01873	0.0324	0.01598	0.01604	0.013	0.0166

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-101D	B-102D	B-104D
8/30/2016	0.0435	0.0162				
12/6/2016	0.0431	0.0138				
3/28/2017		0.017				
3/29/2017	0.044					
7/11/2017	0.0389	0.0154 (J)				
10/24/2017	0.0369	0.0148				
2/27/2018	0.0346	0.0148				
7/11/2018		0.017				
11/6/2018	0.027	0.015				
8/27/2019		0.016				
8/28/2019	0.025					
10/16/2019	0.027					
10/17/2019		0.015				
3/3/2020	0.026	0.016				
8/11/2020		0.016				
8/12/2020	0.034					
8/17/2020			0.015			
9/22/2020		0.015				
9/23/2020	0.025					
9/25/2020			0.022			
12/9/2020						0.026
12/17/2020					0.022	
1/11/2021					0.024	
1/12/2021				0.076		0.022
3/2/2021	0.029	0.017				
3/4/2021					0.022	0.021
3/5/2021				0.064		
3/8/2021			0.022			
9/10/2021		0.014			0.02	
9/13/2021	0.019		0.021	0.076		
9/14/2021						0.021
1/21/2022			0.023			
1/24/2022						0.024
1/25/2022	0.019					
1/26/2022		0.016		0.062		
1/27/2022					0.022	
Mean	0.03147	0.01556	0.0206	0.0695	0.022	0.0228
Std. Dev.	0.008488	0.001002	0.003209	0.00755	0.001414	0.002168
Upper Lim.	0.03722	0.01621	0.02464	0.08756	0.02437	0.02643
Lower Lim.	0.02572	0.01491	0.01515	0.05325	0.01963	0.01917

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-56
8/17/2020						0.03
9/28/2020						0.026
12/9/2020		0.13	0.066		0.027	
12/17/2020	0.022					
1/12/2021					0.027	
1/13/2021				0.06		
3/3/2021						0.028
3/4/2021	0.021	0.12	0.06			
3/5/2021					0.038	
3/8/2021				0.056		
9/10/2021				0.022		
9/13/2021	0.02	0.087				0.026
9/14/2021			0.06		0.043	
1/20/2022				0.047		
1/24/2022		0.092	0.056		0.038	
1/25/2022	0.02					
1/27/2022						0.03
Mean	0.02075	0.1073	0.0605	0.04625	0.0346	0.028
Std. Dev.	0.0009574	0.021	0.004123	0.01706	0.007232	0.002
Upper Lim.	0.02292	0.1549	0.06986	0.08497	0.04672	0.03135
Lower Lim.	0.01858	0.05958	0.05114	0.007526	0.02248	0.02465

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83
1/28/2019		0.028				
1/30/2019	0.018		0.016			
9/11/2019	0.023	0.021				
9/12/2019			0.017			
9/18/2019				0.086		
9/23/2019					0.031	
10/21/2019	0.026		0.018		0.03	0.034
10/22/2019		0.021				
10/24/2019				0.1		
8/13/2020	0.026			0.11		
8/14/2020						0.056
8/17/2020					0.024	
9/24/2020	0.025			0.12		
9/25/2020						0.027
9/28/2020					0.023	
3/4/2021				0.11		0.032
3/12/2021	0.027					
9/9/2021	0.021					
9/14/2021		0.026	0.018	0.12	0.022	
9/16/2021						0.03
1/20/2022	0.021	0.02		0.13		
1/21/2022						0.024
1/25/2022			0.021		0.026	
Mean	0.02338	0.0232	0.018	0.1109	0.026	0.03383
Std. Dev.	0.003159	0.003564	0.001871	0.01455	0.003742	0.01143
Upper Lim.	0.02672	0.02917	0.02113	0.1281	0.03114	0.04907
Lower Lim.	0.02003	0.01723	0.01487	0.09357	0.02086	0.02034

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
8/17/2020	0.022	
8/19/2020		0.018
9/25/2020	0.021	
9/28/2020		0.017
3/5/2021	0.022	
3/9/2021		0.016 (J)
9/13/2021	0.016	
9/15/2021		0.016
1/26/2022		0.021
1/27/2022	0.018	
Mean	0.0198	0.0176
Std. Dev.	0.002683	0.002074
Upper Lim.	0.0243	0.02107
Lower Lim.	0.0153	0.01413

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0046	<0.0005				
9/1/2016			0.0002 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0006 (J)
12/6/2016	0.0048	<0.0005				
12/7/2016			0.0002 (J)	<0.0005	<0.0005	
12/8/2016						0.0005 (J)
3/29/2017	0.0048	<0.0005	0.0002 (J)			
3/30/2017				7E-05 (J)	<0.0005	0.0006 (J)
7/12/2017	0.0046	<0.0005	0.0002 (J)	<0.0005	<0.0005	0.0005 (J)
10/24/2017	0.0048	<0.0005				
10/25/2017			0.0002 (J)		<0.0005	0.0005 (J)
11/15/2017				<0.0005		
2/27/2018	0.0106	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.0002 (J)		<0.0005	0.00058 (J)
11/6/2018	0.012	<0.003 (J)				
11/7/2018			<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.0005
8/27/2019	0.0092	0.00014 (J)	0.00028 (J)			0.00066 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00049 (J)			
10/15/2019	0.01	0.00012 (J)	0.00016 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00071 (J)
3/2/2020		0.00016 (J)	7.4E-05 (J)			
3/3/2020	0.0085			<0.0005	<0.0005	
3/4/2020						0.00062 (J)
8/11/2020	0.0066	0.00011 (J)	0.00024 (J)			
8/12/2020				7.8E-05 (J)		
8/13/2020					0.00022 (J)	
8/14/2020						0.00064 (J)
9/22/2020		0.00015 (J)	0.00017 (J)			
9/23/2020				6.8E-05 (J)	5.8E-05 (J)	
9/24/2020	0.0077					0.0006 (J)
3/2/2021		0.00014 (J)		7.3E-05 (J)	<0.0005	
3/3/2021			0.00011 (J)			0.00056
3/4/2021	0.0086					
9/9/2021		0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	
9/10/2021	0.0074					
9/13/2021						0.00052
1/24/2022					<0.0005	0.00059
1/25/2022		0.00019 (J)	<0.0005	9.1E-05 (J)		
1/26/2022	0.0091					
Mean	0.007553	0.000476	0.0004005	0.0004967	0.0006111	0.0005738
Std. Dev.	0.002439	0.0007205	0.0006832	0.0007238	0.0006494	6.592E-05
Upper Lim.	0.009206	0.0005	0.00049	0.003	0.003	0.0006166
Lower Lim.	0.005901	0.00013	0.00016	7E-05	0.00022	0.0005309

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/1/2016	0.0019 (J)					
9/2/2016		0.0026 (J)	0.0001 (J)	0.0002 (J)		
12/7/2016	0.0021 (J)	0.0035				
12/8/2016			0.0001 (J)	0.0001 (J)		
3/28/2017						0.0002 (J)
3/29/2017	0.0017 (J)	0.0026 (J)		0.0002 (J)		
3/30/2017			0.0002 (J)		0.0004 (J)	
5/12/2017					0.0004 (J)	0.0002 (J)
6/15/2017					0.0004 (J)	0.0001 (J)
7/11/2017						0.0001 (J)
7/12/2017	0.0018 (J)	0.0025 (J)	0.0001 (J)		0.0004 (J)	
7/13/2017				0.0002 (J)		
10/24/2017						0.0002 (J)
10/25/2017	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)		
10/26/2017					0.0004 (J)	
2/27/2018						<0.0005
2/28/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/1/2018					<0.0005	
7/11/2018	0.002 (J)	0.0026 (J)	0.00016 (J)			
7/12/2018				0.00018 (J)	0.00035 (J)	
11/6/2018						<0.003 (J)
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.003 (J)		
11/8/2018					<0.003 (J)	
8/27/2019						0.00024 (J)
8/28/2019	0.0018 (J)					
8/29/2019		0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)	
10/15/2019						0.00022 (J)
10/16/2019	0.0017 (J)					
10/17/2019		0.0041	0.00015 (J)			
10/18/2019				0.00014 (J)	0.00038 (J)	
3/2/2020						0.00025 (J)
3/3/2020	0.0021 (J)		0.00019 (J)	0.00017 (J)		
3/4/2020		0.0089			0.00077 (J)	
8/11/2020	0.002 (J)					
8/12/2020						0.00024 (J)
8/13/2020		0.0063			0.00041 (J)	
8/14/2020			0.0002 (J)	0.00016 (J)		
9/22/2020	0.002 (J)	0.0027 (J)				0.00019 (J)
9/24/2020			0.00018 (J)	0.00017 (J)	0.00045 (J)	
3/1/2021						0.00027 (J)
3/2/2021	0.0019	0.0057				
3/3/2021			0.00017 (J)	0.00013 (J)	0.0005	
9/9/2021	0.0022		0.00018 (J)		0.0005 (J)	
9/10/2021		0.0024		0.00014 (J)		0.00028 (J)
1/20/2022			0.00019 (J)	0.00014 (J)	0.00046 (J)	
1/21/2022		0.007				
1/24/2022						0.00033 (J)
1/25/2022	0.0019					
Mean	0.001906	0.003881	0.0003625	0.0003613	0.0006081	0.0004213
Std. Dev.	0.0004809	0.002153	0.0007092	0.0007093	0.0006451	0.0007196
Upper Lim.	0.0021	0.005282	0.0002	0.0002	0.0005	0.00033
Lower Lim.	0.0017	0.00248	0.00015	0.00014	0.00038	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (J)	0.0045
8/31/2016				0.0054		
9/1/2016		0.0165	0.008			
9/7/2016	0.0021 (J)					
12/6/2016				0.0064	0.0034	0.005
12/8/2016	0.0023 (J)	0.0116	0.0086			
3/28/2017				0.0049		0.0052
3/29/2017					0.0031	
3/30/2017			0.0106			
3/31/2017	0.0025 (J)	0.0112				
7/11/2017				0.005	0.0022 (J)	0.0048
7/13/2017	0.0025 (J)	0.0098	0.0106			
10/24/2017					0.0042	0.0051
10/25/2017	0.0026 (J)			0.0069		
10/26/2017		0.0119	0.0078			
2/27/2018				0.0086	0.0047	0.0057
2/28/2018	<0.0005					
3/1/2018		0.0146				
3/2/2018			0.0096			
7/11/2018	0.0029 (J)					0.0058
7/12/2018		0.013	0.0086			
11/6/2018				0.01	<0.003 (J)	0.006
11/7/2018	0.0031	0.014	0.0078			
8/27/2019				0.01		0.007
8/28/2019	0.0023 (J)				0.0021 (J)	
8/29/2019		0.011	0.0081			
10/16/2019				0.0072	0.0019 (J)	
10/17/2019	0.0027 (J)	0.0093				0.0063
10/18/2019			0.0099			
3/2/2020				0.0098		
3/3/2020					0.0018 (J)	0.0048
3/4/2020	0.0029 (J)	0.01	0.008			
8/11/2020						0.0062
8/12/2020		0.0068		0.0081	0.0018 (J)	
8/13/2020	0.0026 (J)		0.0071			
9/22/2020	0.0013 (J)			0.0081		0.0049
9/23/2020		0.0069	0.0072		0.0015 (J)	
3/2/2021				0.0063	0.0012	0.005
3/3/2021	0.0023	0.0081	0.0068			
9/10/2021		0.009	0.007	0.0075		0.0049
9/13/2021	0.0024				0.0015	
1/20/2022	0.002					
1/21/2022		0.01				
1/24/2022			0.0069	0.0084		
1/25/2022					0.0012	
1/26/2022						0.0054
Mean	0.002313	0.01086	0.008288	0.007507	0.00236	0.005413
Std. Dev.	0.0006407	0.002711	0.001272	0.001712	0.00108	0.0006879
Upper Lim.	0.0027	0.01262	0.009115	0.008667	0.002987	0.00586
Lower Lim.	0.002043	0.009092	0.00746	0.006346	0.001628	0.004965

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	0.0004 (J)					
9/25/2020	0.00035 (J)					
12/9/2020				0.0013 (J)		<0.0005
12/17/2020			0.0014 (J)		0.00012 (J)	
1/11/2021			0.0013 (J)			
1/12/2021		6.6E-05 (J)		0.0015 (J)		
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)
3/5/2021		4.7E-05 (J)				
3/8/2021	0.00046 (J)					
9/10/2021			0.0011			
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005
9/14/2021				0.0011		
1/21/2022	0.00053					
1/24/2022				0.0012		<0.0005
1/25/2022					0.00011 (J)	
1/26/2022		7.9E-05 (J)				
1/27/2022			0.0011			
Mean	0.000454	6.475E-05	0.00122	0.00132	0.0001225	0.0003875
Std. Dev.	7.956E-05	1.323E-05	0.0001304	0.0001789	9.574E-06	0.000225
Upper Lim.	0.0005873	9.478E-05	0.001438	0.00162	0.0001442	0.0005
Lower Lim.	0.0003207	3.472E-05	0.001002	0.00102	0.0001008	5E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-56	B-62	B-63	B-77	B-82
10/6/2016			9E-05 (J)			
10/7/2016				0.0004 (J)		
2/19/2018				0.00049 (J)		
1/28/2019				<0.0005		
1/30/2019			<0.0005			
9/11/2019			0.00012 (J)	0.00035 (J)		
9/18/2019					0.00011 (J)	
9/23/2019						0.0015 (J)
10/21/2019			7.8E-05 (J)			0.0011 (J)
10/22/2019				0.0003 (J)		
10/24/2019					<0.0005	
8/13/2020			0.00011 (J)		0.00014 (J)	
8/17/2020		0.0013 (J)				0.0014 (J)
9/24/2020			0.00013 (J)		5.3E-05 (J)	
9/28/2020		0.0012 (J)				0.0015 (J)
1/13/2021	5.9E-05 (J)					
3/3/2021		0.0011				
3/4/2021					5.7E-05 (J)	
3/8/2021	7.9E-05 (J)					
3/12/2021			<0.0005			
9/9/2021			0.00014 (J)			
9/10/2021	<0.0005					
9/13/2021		0.0012				
9/14/2021				0.00042 (J)	<0.0005	0.0017
1/20/2022	7.1E-05 (J)		0.00015 (J)	0.00034 (J)	<0.0005	
1/25/2022						0.0021
1/27/2022		0.0012				
Mean	0.0001773	0.0012	0.000202	0.0004	0.0002657	0.00155
Std. Dev.	0.0002153	7.071E-05	0.0001705	7.594E-05	0.0002212	0.0003332
Upper Lim.	0.0005	0.001318	0.0005	0.0004902	0.0005	0.002008
Lower Lim.	5.9E-05	0.001082	7.8E-05	0.0003098	5.3E-05	0.001092

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-92	B-93	B-97	B-98
10/21/2019	0.00039 (J)					
12/18/2019			0.022			
12/19/2019				0.0069		
2/17/2020					<0.0005	<0.0005
2/27/2020					0.0019 (J)	<0.0005
8/14/2020	0.0007 (J)					
8/17/2020		0.0014 (J)				
8/19/2020				0.015		
9/25/2020	0.00028 (J)	0.00063 (J)				
9/28/2020				0.015		
3/4/2021	0.00037 (J)					
3/5/2021		0.005				
3/9/2021			0.017	0.017	0.0019	
3/15/2021						<0.0005
9/13/2021		0.001				
9/15/2021			0.014	0.015	0.0016	0.00087
9/16/2021	0.00028 (J)					
1/21/2022	0.00039 (J)					
1/26/2022			0.018	0.017	0.0017	6.8E-05 (J)
1/27/2022		0.0019				
Mean	0.0004017	0.001986	0.01775	0.01432	0.00152	0.0004876
Std. Dev.	0.0001548	0.00175	0.003304	0.003763	0.0005848	0.0002841
Upper Lim.	0.0006048	0.005069	0.02525	0.01753	0.002084	0.00087
Lower Lim.	0.0002408	0.0001483	0.01025	0.01058	0.0003761	6.8E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0012	<0.0005				
9/1/2016			0.0004 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0003 (J)
12/6/2016	0.0013	<0.0005				
12/7/2016			0.0003 (J)	0.0002 (J)	9E-05 (J)	
12/8/2016						0.0003 (J)
3/29/2017	0.0013	<0.0005	0.0003 (J)			
3/30/2017				8E-05 (J)	9E-05 (J)	0.0003 (J)
7/12/2017	0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	0.0002 (J)
10/24/2017	0.0014	<0.0005				
10/25/2017			0.0004 (J)		<0.0005	0.0002 (J)
11/15/2017				<0.0005		
2/27/2018	0.001	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.00033 (J)		<0.0005	0.00029 (J)
11/6/2018	0.0012	<0.0005				
11/7/2018			<0.001 (J)	<0.0005	<0.001 (J)	<0.0005
8/27/2019	0.00077 (J)	0.00012 (J)	0.00037 (J)			0.00033 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00035 (J)			
10/15/2019	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00029 (J)
3/2/2020		<0.0005	<0.0005			
3/3/2020	0.00095 (J)			<0.0005	0.00012 (J)	
3/4/2020						0.00028 (J)
8/11/2020	0.00071 (J)	<0.0005	0.00038 (J)			
8/12/2020				<0.0005		
8/13/2020					0.00013 (J)	
8/14/2020						0.00029 (J)
9/22/2020		0.00016 (J)	0.00017 (J)			
9/23/2020				<0.0005	<0.0005	
9/24/2020	0.00055 (J)					0.00024 (J)
3/2/2021		0.00013 (J)		<0.0005	<0.0005	
3/3/2021			0.00016 (J)			0.00023 (J)
3/4/2021	0.00088					
9/9/2021		<0.0005	<0.0005	<0.0005	<0.0005	
9/10/2021	0.00061					
9/13/2021						0.00023 (J)
1/24/2022					<0.0005	0.00027 (J)
1/25/2022		0.00016 (J)	<0.0005	<0.0005		
1/26/2022	0.0007					
Mean	0.000988	0.0004047	0.0004006	0.000452	0.0004331	0.0002969
Std. Dev.	0.0002814	0.0001639	0.0001874	0.0001287	0.0002304	8.784E-05
Upper Lim.	0.001179	0.0005	0.0003402	0.0005	0.001	0.00033
Lower Lim.	0.0007973	0.00016	0.0002276	0.0002	0.00012	0.00023

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0004 (J)					
9/2/2016			0.0023	0.0006 (J)	0.0003 (J)	
12/7/2016	0.0004 (J)		0.0023			
12/8/2016				0.0006 (J)	0.0004 (J)	
3/29/2017	0.0004 (J)		0.0021		0.0004 (J)	
3/30/2017		0.0005 (J)		0.0008 (J)		0.0002 (J)
5/11/2017		0.0004 (J)				
5/12/2017						0.0003 (J)
6/15/2017		0.0003 (J)				0.0002 (J)
7/11/2017		0.0003 (J)				
7/12/2017	0.0004 (J)		0.0021	0.0006 (J)		0.0002 (J)
7/13/2017					0.0005 (J)	
10/24/2017		0.0003 (J)				
10/25/2017	0.0004 (J)		0.002	0.0005 (J)	0.0007 (J)	
10/26/2017						0.0003 (J)
2/27/2018		<0.0005				
2/28/2018	<0.0005		0.0018	<0.0005	<0.0005	
3/1/2018						<0.0005
7/11/2018	0.00039 (J)	0.00018 (J)	0.0018	0.00054 (J)		
7/12/2018					0.00091 (J)	0.00028 (J)
11/6/2018		<0.001 (J)				
11/7/2018	<0.001 (J)		0.0018	<0.001 (J)	<0.001 (J)	
11/8/2018						<0.001 (J)
8/27/2019		0.00012 (J)				
8/28/2019	0.00033 (J)					
8/29/2019			0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)
10/16/2019	0.00034 (J)					
10/17/2019		0.00013 (J)	0.0017 (J)	0.0006 (J)		
10/18/2019					0.00056 (J)	0.00022 (J)
3/3/2020	0.00037 (J)	0.00014 (J)		0.00063 (J)	0.00061 (J)	
3/4/2020			0.0026			0.00024 (J)
8/11/2020	0.0003 (J)	<0.0005				
8/13/2020			0.0021 (J)			0.00027 (J)
8/14/2020				0.00054 (J)	0.00057 (J)	
9/22/2020	0.00036 (J)		0.0014 (J)			
9/23/2020		0.00013 (J)				
9/24/2020				0.00073 (J)	0.00058 (J)	0.00018 (J)
3/2/2021	0.00035 (J)	<0.0005	0.0025			
3/3/2021				0.00044 (J)	0.0005	0.00015 (J)
9/9/2021	0.00037 (J)	<0.0005		0.00012 (J)		0.00019 (J)
9/10/2021			0.0012		0.00061	
1/20/2022		<0.0005		<0.0005	0.00052	0.00012 (J)
1/21/2022			0.0028			
1/25/2022	0.00041 (J)					
Mean	0.00042	0.000375	0.002031	0.0005981	0.0005744	0.0002856
Std. Dev.	0.0001609	0.0002281	0.0004207	0.0001973	0.000177	0.0002091
Upper Lim.	0.00041	0.000281	0.002305	0.000639	0.0006895	0.0003
Lower Lim.	0.00034	0.0001339	0.001758	0.0003517	0.0004592	0.00018

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0019
8/31/2016					0.0002 (J)	
9/1/2016			0.0017	0.0013		
9/7/2016		0.0007 (J)				
12/6/2016					0.0004 (J)	0.0025
12/8/2016		0.0003 (J)	0.0002 (J)	0.0042		
3/28/2017	0.0006 (J)				0.0002 (J)	
3/29/2017						0.0024
3/30/2017				0.0089		
3/31/2017		0.0009 (J)	0.002			
5/12/2017	0.0006 (J)					
6/15/2017	0.0005 (J)					
7/11/2017	0.0006 (J)				0.0003 (J)	0.0021
7/13/2017		0.0008 (J)	0.0017	0.0033		
10/24/2017	0.0007 (J)					0.0029
10/25/2017		0.0005 (J)			0.0006 (J)	
10/26/2017			0.0015	0.0032		
2/27/2018	<0.0005				<0.0005	0.0029
2/28/2018		<0.0005				
3/1/2018			0.0025			
3/2/2018				0.0049		
7/11/2018		0.0024				
7/12/2018			0.0021	0.0032		
11/6/2018	<0.001 (J)				<0.001 (J)	0.0027
11/7/2018		<0.001 (J)	0.0016	0.0031		
8/27/2019	0.00072 (J)				0.00082 (J)	
8/28/2019		0.0015 (J)				0.0022 (J)
8/29/2019			0.0021 (J)	0.003		
10/15/2019	0.00077 (J)					
10/16/2019					0.00069 (J)	0.0022 (J)
10/17/2019		0.00058 (J)	0.0033			
10/18/2019				0.0028		
3/2/2020	0.00088 (J)				0.00089 (J)	
3/3/2020						0.002 (J)
3/4/2020		0.00037 (J)	0.0017 (J)	0.0036		
8/12/2020	0.0008 (J)		0.001 (J)		0.00079 (J)	0.0021 (J)
8/13/2020		0.0013 (J)		0.0028		
9/22/2020	0.00065 (J)	0.0007 (J)			0.00072 (J)	
9/23/2020			0.0013 (J)	0.0025		0.0018 (J)
3/1/2021	0.00085					
3/2/2021					0.00075	0.0017
3/3/2021		0.00038 (J)	0.0016	0.0033		
9/10/2021	0.0009		0.0014	0.0028	0.00093	
9/13/2021		0.00042 (J)				0.002
1/20/2022		0.00038 (J)				
1/21/2022			0.0019			
1/24/2022	0.00098			0.0029	0.00094	
1/25/2022						0.0016
Mean	0.0007367	0.0007956	0.001725	0.003488	0.0006487	0.0022
Std. Dev.	0.0001628	0.0005496	0.0006678	0.001632	0.0002703	0.0004071
Upper Lim.	0.000847	0.001058	0.00216	0.0042	0.0008318	0.002476
Lower Lim.	0.0006264	0.0004581	0.00129	0.0028	0.0004655	0.001924

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-106D	B-56
8/30/2016	0.0004 (J)					
12/6/2016	0.0005 (J)					
3/28/2017	0.0005 (J)					
7/11/2017	0.0005 (J)					
10/24/2017	0.0006 (J)					
2/27/2018	<0.0005					
7/11/2018	0.00067 (J)					
11/6/2018	<0.001 (J)					
8/27/2019	0.00071 (J)					
10/17/2019	0.00064 (J)					
3/3/2020	0.00059 (J)					
8/11/2020	0.00059 (J)					
8/17/2020		0.00059 (J)				0.00029 (J)
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
9/28/2020						0.00024 (J)
12/17/2020				0.00067 (J)	0.0002 (J)	
1/11/2021				0.0008 (J)		
1/12/2021			<0.0005			
3/2/2021	0.00057					
3/3/2021						0.00026 (J)
3/4/2021				0.00081	0.00021 (J)	
3/5/2021			<0.0005			
3/8/2021		0.00027 (J)				
9/10/2021	0.00053			0.00083		
9/13/2021		0.00029 (J)	<0.0005		0.00024 (J)	0.00028 (J)
1/21/2022		0.00059				
1/25/2022					0.00012 (J)	
1/26/2022	0.00059		0.00011 (J)			
1/27/2022				0.00091		0.00025 (J)
Mean	0.0005925	0.000402	0.0004025	0.000804	0.0001925	0.000264
Std. Dev.	0.0001326	0.0001718	0.000195	8.649E-05	5.123E-05	2.074E-05
Upper Lim.	0.0006618	0.00059	0.0005	0.0009489	0.0003088	0.0002987
Lower Lim.	0.0005096	0.00027	0.00011	0.0006591	7.618E-05	0.0002293

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-82	B-83	B-93
1/28/2019	<0.0005			
9/11/2019	<0.0005			
9/23/2019		0.00044 (J)		
10/21/2019		0.00035 (J)	0.00041 (J)	
10/22/2019	0.00014 (J)			
8/14/2020			0.00037 (J)	
8/17/2020		0.00058 (J)		
8/19/2020				0.00077 (J)
9/25/2020			0.00026 (J)	
9/28/2020		0.00066 (J)		0.00074 (J)
3/4/2021			0.00032 (J)	
3/9/2021				0.00075 (J)
9/14/2021	0.00025 (J)	0.0007		
9/15/2021				0.00088
9/16/2021			0.0003 (J)	
1/20/2022	<0.0005			
1/21/2022			0.0003 (J)	
1/25/2022		0.00072		
1/26/2022				0.00079
Mean	0.000378	0.000575	0.0003267	0.000786
Std. Dev.	0.0001715	0.0001502	5.428E-05	5.595E-05
Upper Lim.	0.0005	0.0007813	0.0004012	0.0008797
Lower Lim.	0.00014	0.0003687	0.0002521	0.0006923

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	<0.005	<0.005				
9/1/2016			<0.005			
9/6/2016				<0.005	<0.005	
9/7/2016						0.0026 (J)
12/6/2016	<0.005	<0.005				
12/7/2016			<0.005	<0.005	<0.005	
12/8/2016						0.0025 (J)
3/29/2017	0.0008 (J)	<0.005	<0.005			
3/30/2017				0.0009 (J)	0.0005 (J)	0.0026 (J)
7/12/2017	0.0006 (J)	<0.005	<0.005	<0.005	<0.005	0.0022 (J)
10/24/2017	0.0007 (J)	<0.005				
10/25/2017			<0.005		<0.005	0.0024 (J)
11/15/2017				<0.005		
2/27/2018	<0.005	<0.005	<0.005			
2/28/2018				<0.005	<0.005	<0.005
7/11/2018			<0.005		<0.005	0.0024 (J)
11/6/2018	<0.005	<0.005				
11/7/2018			<0.005	<0.005	<0.01 (J)	<0.005
8/27/2019	0.00083 (J)	0.0006 (J)	<0.005			0.0031 (J)
8/28/2019				<0.005	<0.005	
9/17/2019			<0.005			
10/15/2019	0.00078 (J)	<0.005	<0.005			
10/16/2019				<0.005		
10/17/2019					0.00058 (J)	
10/18/2019						0.0027 (J)
3/2/2020		0.0006 (J)	<0.005			
3/3/2020	0.00092 (J)			0.00066 (J)	0.00046 (J)	
3/4/2020						0.0035 (J)
8/11/2020	0.00097 (J)	0.00061 (J)	0.00094 (J)			
8/12/2020				0.00074 (J)		
8/13/2020					0.0048 (J)	
8/14/2020						0.0033 (J)
9/22/2020		0.00058 (J)	<0.005			
9/23/2020				0.00059 (J)	<0.005	
9/24/2020	0.001 (J)					0.0029 (J)
3/2/2021		<0.005		<0.005	<0.005	
3/3/2021			0.00099 (J)			0.0028 (J)
3/4/2021	0.0009 (J)					
9/9/2021		<0.005	<0.005	<0.005	<0.005	
9/10/2021	<0.005					
9/13/2021						0.0027 (J)
1/24/2022					<0.005	0.0029 (J)
1/25/2022		<0.005	<0.005	<0.005		
1/26/2022	0.0011 (J)					
Mean	0.00224	0.003826	0.004525	0.003859	0.004459	0.003037
Std. Dev.	0.002024	0.002015	0.00134	0.001959	0.00232	0.0008366
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0035
Lower Lim.	0.00078	0.0006	0.00099	0.00074	0.00058	0.0025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0031 (J)					
9/2/2016			0.0017 (J)	<0.005	0.0012 (J)	
12/7/2016	<0.005		<0.005			
12/8/2016				<0.005	<0.005	
3/29/2017	0.0025 (J)		0.0016 (J)		<0.005	
3/30/2017		0.0005 (J)		0.0005 (J)		0.0012 (J)
5/11/2017		0.0005 (J)				
5/12/2017						0.0004 (J)
6/15/2017		<0.005				0.0005 (J)
7/11/2017		<0.005				
7/12/2017	0.0023 (J)		<0.005	0.0006 (J)		0.0007 (J)
7/13/2017					<0.005	
10/24/2017		<0.005				
10/25/2017	0.0024 (J)		0.0015 (J)	<0.005	<0.005	
10/26/2017						0.0007 (J)
2/27/2018		<0.005				
2/28/2018	<0.005		<0.005	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.0022 (J)	<0.005	<0.005	<0.005		
7/12/2018					<0.005	<0.005
11/6/2018		<0.005				
11/7/2018	<0.01 (J)		<0.01 (J)	<0.005	<0.005	
11/8/2018						<0.005
8/27/2019		0.0004 (J)				
8/28/2019	0.0028 (J)					
8/29/2019			0.0017 (J)	0.00041 (J)	<0.005	<0.005
10/16/2019	0.0024 (J)					
10/17/2019		0.00046 (J)	0.0015 (J)	<0.005		
10/18/2019					<0.005	0.00041 (J)
3/3/2020	0.0028 (J)	<0.005		0.00048 (J)	<0.005	
3/4/2020			0.0032 (J)			0.00081 (J)
8/11/2020	0.0024 (J)	0.00067 (J)				
8/13/2020			0.0023 (J)			0.00085 (J)
8/14/2020				<0.005	<0.005	
9/22/2020	0.003 (J)		0.0013 (J)			
9/23/2020		<0.005				
9/24/2020				0.00096 (J)	<0.005	0.00084 (J)
3/2/2021	0.0024 (J)	0.00064 (J)	0.0022 (J)			
3/3/2021				0.002 (J)	<0.005	0.0014 (J)
9/9/2021	0.003 (J)	<0.005		<0.005		<0.005
9/10/2021			<0.005		<0.005	
1/20/2022		<0.005		<0.005	<0.005	<0.005
1/21/2022			0.0021 (J)			
1/25/2022	0.0029 (J)					
Mean	0.003387	0.003323	0.003381	0.003434	0.004762	0.002363
Std. Dev.	0.001958	0.002237	0.002329	0.002117	0.00095	0.002124
Upper Lim.	0.0031	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0024	0.0005	0.0016	0.0005	0.0012	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.005
8/31/2016					<0.005	
9/1/2016			<0.005	<0.005		
9/7/2016		<0.005				
12/6/2016					<0.005	<0.005
12/8/2016		<0.005	<0.005	<0.005		
3/28/2017	0.0005 (J)				<0.005	
3/29/2017						0.0004 (J)
3/30/2017				<0.005		
3/31/2017		0.001 (J)	0.0007 (J)			
5/12/2017	<0.005					
6/15/2017	<0.005					
7/11/2017	<0.005				<0.005	<0.005
7/13/2017		0.0008 (J)	<0.005	0.0007 (J)		
10/24/2017	<0.005					<0.005
10/25/2017		0.0005 (J)			<0.005	
10/26/2017			<0.005	<0.005		
2/27/2018	<0.005				<0.005	<0.005
2/28/2018		<0.005				
3/1/2018			<0.005			
3/2/2018				<0.005		
7/11/2018		<0.005				
7/12/2018			<0.005	<0.005		
11/6/2018	<0.005				<0.005	<0.005
11/7/2018		<0.005	<0.005	<0.005		
8/27/2019	<0.005				<0.005	
8/28/2019		<0.005				<0.005
8/29/2019			<0.005	<0.005		
10/15/2019	<0.005					
10/16/2019					<0.005	0.0013 (J)
10/17/2019		0.00041 (J)	<0.005			
10/18/2019				<0.005		
3/2/2020	<0.005				0.00045 (J)	
3/3/2020						0.00061 (J)
3/4/2020		0.00042 (J)	<0.005	0.0004 (J)		
8/12/2020	<0.005		<0.005		<0.005	0.0028 (J)
8/13/2020		0.0021 (J)		<0.005		
9/22/2020	<0.005	0.001 (J)			<0.005	
9/23/2020			<0.005	<0.005		0.00086 (J)
3/1/2021	<0.005					
3/2/2021					<0.005	0.0015 (J)
3/3/2021		<0.005	<0.005	<0.005		
9/10/2021	<0.005		<0.005	<0.005	<0.005	
9/13/2021		<0.005				<0.005
1/20/2022		<0.005				
1/21/2022			<0.005			
1/24/2022	<0.005			<0.005	<0.005	
1/25/2022						<0.005
Mean	0.0047	0.003202	0.004731	0.004444	0.004697	0.003498
Std. Dev.	0.001162	0.002139	0.001075	0.001521	0.001175	0.001973
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0005	0.0007	0.0007	0.00045	0.00086

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-104D	B-109D	B-56
8/30/2016	<0.005					
12/6/2016	<0.005					
3/28/2017	0.001 (J)					
7/11/2017	<0.005					
10/24/2017	<0.005					
2/27/2018	<0.005					
7/11/2018	<0.005					
11/6/2018	<0.005					
8/27/2019	0.00048 (J)					
10/17/2019	0.00051 (J)					
3/3/2020	0.0057 (J)					
8/11/2020	0.00061 (J)					
8/17/2020	<0.005					0.0014 (J)
9/22/2020	<0.005					
9/25/2020		0.00094 (J)				
9/28/2020						<0.005
12/9/2020				0.0011 (J)		
1/12/2021			<0.005	<0.005		
1/13/2021					<0.005	
3/2/2021	0.00059 (J)					
3/3/2021						0.00059 (J)
3/4/2021				<0.005		
3/5/2021			<0.005			
3/8/2021		0.00057 (J)			0.00061 (J)	
9/10/2021	<0.005				<0.005	
9/13/2021		<0.005	0.0014 (J)			<0.005
9/14/2021				<0.005		
1/20/2022					<0.005	
1/21/2022		<0.005				
1/24/2022				<0.005		
1/26/2022	0.0029 (J)		<0.005			
1/27/2022						0.0014 (J)
Mean	0.003549	0.003302	0.0041	0.00422	0.003902	0.002678
Std. Dev.	0.002106	0.002329	0.0018	0.001744	0.002195	0.002145
Upper Lim.	0.0057	0.005	0.005	0.005	0.005	0.001524
Lower Lim.	0.00059	0.00057	0.0014	0.0011	0.00061	0.0003348

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-77	B-82	B-83	B-88
1/28/2019		<0.005				
1/30/2019	<0.005					
9/11/2019	<0.005	<0.005				
9/18/2019			0.00068 (J)			
9/23/2019				0.0011 (J)		
10/21/2019	0.00098 (J)			<0.005	0.0017 (J)	
10/22/2019		0.00064 (J)				
10/24/2019			<0.005			
8/13/2020	<0.005		0.0021 (J)			
8/14/2020					0.005 (J)	
8/17/2020				<0.005		0.0014 (J)
9/24/2020	<0.005		0.0007 (J)			
9/25/2020					0.0051 (J)	0.00085 (J)
9/28/2020				<0.005		
3/4/2021			0.00098 (J)		0.0049 (J)	
3/5/2021						0.0017 (J)
3/12/2021	<0.005					
9/9/2021	<0.005					
9/13/2021						<0.005
9/14/2021		<0.005	<0.005	<0.005		
9/16/2021					0.003 (J)	
1/20/2022	<0.005	<0.005	<0.005			
1/21/2022					0.0034 (J)	
1/25/2022				<0.005		
1/27/2022						<0.005
Mean	0.004497	0.004128	0.00278	0.00435	0.00385	0.00279
Std. Dev.	0.001421	0.00195	0.00213	0.001592	0.001381	0.00204
Upper Lim.	0.005	0.005	0.005	0.005	0.005747	0.00197
Lower Lim.	0.00098	0.00064	0.00068	0.0011	0.001953	0.0007556

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.00057 (J)
9/28/2020	0.00066 (J)
3/9/2021	<0.005
9/15/2021	<0.005
1/26/2022	0.0011 (J)
Mean	0.002466
Std. Dev.	0.002322
Upper Lim.	0.001195
Lower Lim.	0.0004647

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.193	<0.005				
9/1/2016			0.0021 (J)			
9/6/2016				<0.005	0.0042 (J)	
9/7/2016						0.0247
12/6/2016	0.2	0.0006 (J)				
12/7/2016			0.0026 (J)	<0.005	0.0028 (J)	
12/8/2016						0.029
3/29/2017	0.184	<0.005	0.0026 (J)			
3/30/2017				0.0005 (J)	0.0024 (J)	0.0283
7/12/2017	0.177	<0.005	0.0033 (J)	0.0004 (J)	0.002 (J)	0.023
10/24/2017	0.175	<0.005				
10/25/2017			0.0021 (J)		0.0019 (J)	0.0259
11/15/2017				<0.005		
2/27/2018	0.2	<0.005	<0.005			
2/28/2018				<0.005	<0.005	0.02
7/11/2018			0.002 (J)		0.0018 (J)	0.025
11/6/2018	0.2	<0.005				
11/7/2018			<0.01 (J)	<0.005	0.025	<0.01 (J)
8/27/2019	0.13	0.00076 (J)	0.0021 (J)			0.031
8/28/2019				<0.005	0.0015 (J)	
9/17/2019			0.0079			
10/15/2019	0.17	0.0006 (J)	0.0058			
10/16/2019				<0.005		
10/17/2019					0.0018 (J)	
10/18/2019						0.023
3/2/2020		0.00078 (J)	0.029			
3/3/2020	0.18			<0.005	0.0018 (J)	
3/4/2020						0.023
8/11/2020	0.11	0.00055 (J)	0.006			
8/12/2020				<0.005		
8/13/2020					0.0024 (J)	
8/14/2020						0.026
9/22/2020		0.00098 (J)	0.013			
9/23/2020				0.00038 (J)	0.0018 (J)	
9/24/2020	0.086					0.028
3/2/2021		0.00065 (J)		<0.005	0.0013 (J)	
3/3/2021			0.01			0.016
3/4/2021	0.071					
9/9/2021		0.00081 (J)	0.034	<0.005	0.0016 (J)	
9/10/2021	0.076					
9/13/2021						0.019
1/24/2022					0.0015 (J)	0.019
1/25/2022		0.0015 (J)	0.018	<0.005		
1/26/2022	0.099					
Mean	0.1501	0.001482	0.008706	0.002085	0.003519	0.02287
Std. Dev.	0.04897	0.0008885	0.009703	0.0008588	0.00577	0.006278
Upper Lim.	0.2	0.0025	0.013	0.0025	0.0028	0.02676
Lower Lim.	0.086	0.0006	0.0021	0.0005	0.0016	0.02009

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0553					
9/2/2016			0.497	0.0085 (J)	0.0102	
12/7/2016	0.0561		0.614			
12/8/2016				0.0095 (J)	0.0079 (J)	
3/29/2017	0.0534		0.443		0.0097 (J)	
3/30/2017		0.0255		0.0076 (J)		<0.005
5/11/2017		0.0284				
5/12/2017						<0.005
6/15/2017		0.0238				0.0003 (J)
7/11/2017		0.0238				
7/12/2017	0.0489		0.538	0.0092 (J)		<0.005
7/13/2017					0.0106	
10/24/2017		0.0292				
10/25/2017	0.0514		0.432	0.0092 (J)	0.0094 (J)	
10/26/2017						<0.005
2/27/2018		0.042				
2/28/2018	0.0511		0.459	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.051	0.02	0.47	0.0097 (J)		
7/12/2018					0.011	<0.005
11/6/2018		0.024				
11/7/2018	0.048		0.42	<0.01 (J)	<0.01 (J)	
11/8/2018						<0.01 (J)
8/27/2019		0.0088				
8/28/2019	0.048					
8/29/2019			0.66	0.01	0.0094	0.00036 (J)
10/16/2019	0.046					
10/17/2019		0.0084	0.57	0.01		
10/18/2019					0.0084	<0.005
3/3/2020	0.054	0.0073		0.01	0.0098	
3/4/2020			0.84			0.00043 (J)
8/11/2020	0.049	0.0064				
8/13/2020			0.73			0.00048 (J)
8/14/2020				0.0098	0.0087	
9/22/2020	0.051		0.47			
9/23/2020		0.0062				
9/24/2020				0.01	0.01	<0.005
3/2/2021	0.051	0.0055	0.77			
3/3/2021				0.0087	0.0078	0.00039 (J)
9/9/2021	0.055	0.0048 (J)		0.0096		0.00049 (J)
9/10/2021			0.45		0.0076	
1/20/2022		0.004 (J)		0.0076	0.0075	0.00058 (J)
1/21/2022			0.95			
1/25/2022	0.054					
Mean	0.05145	0.01676	0.5821	0.008556	0.008469	0.001752
Std. Dev.	0.002973	0.01166	0.1636	0.002085	0.002183	0.001348
Upper Lim.	0.05338	0.0284	0.6741	0.009705	0.009815	0.0025
Lower Lim.	0.04952	0.0055	0.4755	0.008358	0.007486	0.00039

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0568
8/31/2016					0.055	
9/1/2016			0.536	0.539		
9/7/2016		0.0695				
12/6/2016					0.0432	0.0873
12/8/2016		0.0652	0.381	0.575		
3/28/2017	0.0018 (J)				0.04	
3/29/2017						0.0902
3/30/2017				0.573		
3/31/2017		0.0524	0.354			
5/12/2017	0.0015 (J)					
6/15/2017	0.0015 (J)					
7/11/2017	0.0015 (J)				0.0351 (J)	0.0601
7/13/2017		0.0481	0.396	0.531		
10/24/2017	0.0017 (J)					0.123
10/25/2017		0.0435			0.0209	
10/26/2017			0.383	0.482		
2/27/2018	<0.005				0.024	0.126
2/28/2018		0.0167				
3/1/2018			0.401			
3/2/2018				0.49		
7/11/2018		0.019				
7/12/2018			0.36	0.46		
11/6/2018	<0.01 (J)				0.019	0.077
11/7/2018		0.02	0.35	0.48		
8/27/2019	0.0018 (J)				0.02	
8/28/2019		0.029				0.051
8/29/2019			0.28	0.42		
10/15/2019	0.0018 (J)					
10/16/2019					0.022	0.054
10/17/2019		0.03	0.26			
10/18/2019				0.41		
3/2/2020	0.0021 (J)				0.028	
3/3/2020						0.044
3/4/2020		0.014	0.28	0.42		
8/12/2020	0.0018 (J)		0.21		0.021	0.053
8/13/2020		0.025		0.35		
9/22/2020	0.0014 (J)	0.014			0.02	
9/23/2020			0.17	0.37		0.04
3/1/2021	0.002 (J)					
3/2/2021					0.021	0.033
3/3/2021		0.0087	0.2	0.36		
9/10/2021	0.0019 (J)		0.23	0.36	0.022	
9/13/2021		0.008				0.028
1/20/2022		0.0056				
1/21/2022			0.24			
1/24/2022	0.0019 (J)			0.34	0.025	
1/25/2022						0.019
Mean	0.002013	0.02929	0.3144	0.4475	0.02775	0.06283
Std. Dev.	0.0008717	0.02045	0.09666	0.08036	0.01072	0.03209
Upper Lim.	0.0021	0.0426	0.3773	0.4998	0.04	0.08457
Lower Lim.	0.0015	0.01599	0.2515	0.3952	0.02	0.04108

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-106D	B-107D
8/30/2016	0.0896					
12/6/2016	0.122					
3/28/2017	0.124					
7/11/2017	0.136					
10/24/2017	0.151					
2/27/2018	0.163					
7/11/2018	0.18					
11/6/2018	0.2					
8/27/2019	0.24					
10/17/2019	0.21					
3/3/2020	0.2					
7/23/2020		0.086				
8/3/2020		0.087				
8/11/2020	0.22					
8/17/2020		0.077				
9/22/2020	0.16					
9/25/2020		0.034				
12/9/2020						0.0017 (J)
12/17/2020				0.014	0.00087 (J)	
1/11/2021				0.015		
1/12/2021			0.0034 (J)			
3/2/2021	0.18					
3/4/2021				0.014	0.0007 (J)	0.0012 (J)
3/5/2021			0.0023 (J)			
3/8/2021		0.029				
9/10/2021	0.21			0.013		
9/13/2021		0.035	0.003 (J)		0.00056 (J)	0.00083 (J)
1/21/2022		0.034				
1/24/2022						0.00088 (J)
1/25/2022					<0.005	
1/26/2022	0.22		0.0028 (J)			
1/27/2022				0.014		
Mean	0.1754	0.05457	0.002875	0.014	0.001157	0.001153
Std. Dev.	0.04258	0.02716	0.0004573	0.0007071	0.0009039	0.0004001
Upper Lim.	0.2031	0.087	0.003913	0.01518	0.001021	0.002061
Lower Lim.	0.1476	0.029	0.001837	0.01282	0.0004466	0.0002441

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-62	B-63	B-66	B-77
1/28/2019				0.053		
1/30/2019			<0.005		<0.005	
9/11/2019			0.0003 (J)	0.043		
9/12/2019					0.006	
9/18/2019						0.0031 (J)
10/21/2019			0.00031 (J)		0.0074	
10/22/2019				0.046		
10/24/2019						0.0021 (J)
8/13/2020			<0.005			0.0011 (J)
8/17/2020		0.042				
9/24/2020			<0.005			0.0004 (J)
9/28/2020		0.042				
12/9/2020	0.00076 (J)					
1/12/2021	0.0007 (J)					
3/3/2021		0.05				
3/4/2021						0.0017 (J)
3/5/2021	0.00052 (J)					
3/12/2021			<0.005	0.046	0.01	
9/9/2021			<0.005			
9/13/2021		0.047				
9/14/2021	<0.005			0.037	0.012	<0.005
1/20/2022			<0.005	0.039		<0.005
1/24/2022	0.00041 (J)					
1/25/2022					0.013	
1/27/2022		0.052				
Mean	0.000978	0.0466	0.001951	0.044	0.008483	0.001914
Std. Dev.	0.0008622	0.004561	0.001016	0.005727	0.003955	0.0009245
Upper Lim.	0.0008753	0.05424	0.0025	0.05187	0.013	0.002764
Lower Lim.	0.0003847	0.03896	0.0003	0.03613	0.004798	0.0005955

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93	B-98
9/23/2019	0.0038 (J)				
10/21/2019	0.0089	0.018			
11/22/2019			0.018 (J)		
12/19/2019				0.066	
2/17/2020					<0.005
8/14/2020		0.021			
8/17/2020	0.0028 (J)		0.0031 (J)		
8/19/2020				0.068	
9/25/2020		0.0073	0.0015 (J)		
9/28/2020	0.0053			0.064	
3/4/2021		0.0099			
3/5/2021			0.022		
3/9/2021				0.061	
3/12/2021	0.0021 (J)				
3/15/2021					<0.005
9/13/2021			0.0018 (J)		
9/14/2021	0.0015 (J)				
9/15/2021				0.062	0.0048 (J)
9/16/2021		0.011			
1/21/2022		0.011			
1/25/2022	0.0039 (J)				
1/26/2022				0.064	<0.005
1/27/2022			0.0038 (J)		
Mean	0.004043	0.01303	0.008367	0.06417	0.003075
Std. Dev.	0.002485	0.005274	0.009138	0.002563	0.00115
Upper Lim.	0.006994	0.02028	0.02345	0.06769	0.0048
Lower Lim.	0.001092	0.005788	0.000922	0.06065	0.0025

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1.08	1.09			0.997 (U)	
9/1/2016			1.11			
9/6/2016				1.32		0.731 (U)
12/6/2016	1.31	0.409 (U)			0.659 (U)	
12/7/2016			2.66	1.76		1.73
3/29/2017	1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017				1.59		0.276 (U)
7/12/2017	0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
10/24/2017	0.838 (U)	0.98 (U)				
10/25/2017			0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017				1.08 (U)		
2/27/2018	1.55	1.14	0.83		0.695 (U)	
2/28/2018				0.721 (U)		1.25
7/10/2018	1.65	0.495 (U)		0.746 (U)		
7/11/2018			0.728 (U)		1.04 (U)	2.13
11/6/2018	1.46	1.41				
11/7/2018			0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019				1.43		1.01 (U)
10/15/2019	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019				1.73	1.04 (U)	
10/17/2019						1.03 (U)
3/2/2020		1.3	1.2 (U)			
3/3/2020	1.69			1.03	1.44	0.293 (U)
8/11/2020	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020				1.63		
8/13/2020						3.58
9/22/2020		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020				0.935 (U)		1.69 (U)
9/24/2020	1.39					
3/2/2021		0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021			1.85			
3/4/2021	1.48					
9/9/2021		1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)
9/10/2021	0.882 (U)					
1/24/2022						0.534 (U)
1/25/2022		0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)	
1/26/2022	1.21					
Mean	1.28	0.9703	0.8885	1.197	0.8554	1.081
Std. Dev.	0.3039	0.4315	0.691	0.4063	0.337	0.8576
Upper Lim.	1.477	1.251	1.227	1.462	1.075	1.478
Lower Lim.	1.082	0.6895	0.4225	0.9329	0.6362	0.5478

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		1.07 (U)				
9/2/2016				1.48	0.908 (U)	1.54
9/7/2016	1.17					
12/7/2016		0.903 (U)		1.26 (U)		
12/8/2016	1.65				1.03 (U)	0.505 (U)
3/29/2017		0.302 (U)		0.373 (U)		0.715 (U)
3/30/2017	0.865 (U)		0.737 (U)		0.884 (U)	
5/11/2017			0.892 (U)			
6/15/2017			0.979 (U)			
7/11/2017			0.871 (U)			
7/12/2017	0.362 (U)	0.283 (U)		0.91 (U)	1.22	
7/13/2017						1.14
10/24/2017			1.19			
10/25/2017	0.401 (U)	0.927 (U)		0.853 (U)	1.07 (U)	1.6
2/27/2018			0.863 (U)			
2/28/2018	1.1 (U)	0.813 (U)		0.727 (U)	1.45	0.918 (U)
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)	1.3	1.59	
7/12/2018						0.981 (U)
11/6/2018			0.664			
11/7/2018	0.795 (U)	1.02		0.746 (U)	1.16	0.832 (U)
8/27/2019	1.12		1.6			
8/28/2019		0.661 (U)				
8/29/2019				0.996 (U)	0.582 (U)	1.87
10/16/2019		1.79				
10/17/2019			1.74	2	0.427 (U)	
10/18/2019	0.89 (U)					1.1 (U)
3/3/2020		0.383 (U)	1.23		0.567 (U)	0.517 (U)
3/4/2020	0.493 (U)			1.67		
8/11/2020		0.723 (U)	1.37			
8/13/2020				1.77		
8/14/2020	0.804 (U)				0.602 (U)	1.83
9/22/2020		0.96 (U)		1.61 (U)		
9/23/2020			1.96 (U)			
9/24/2020	0.369 (U)				0.396 (U)	1.02 (U)
3/2/2021		0.775 (U)	1.54 (U)	1.76		
3/3/2021	0.66 (U)				0.248 (U)	0.547 (U)
9/9/2021		0.239 (U)	1.22 (U)		0.702 (U)	
9/10/2021				0.689 (U)		0.616 (U)
9/13/2021	0.85 (U)					
1/20/2022			0.722 (U)		0.337 (U)	0.298 (U)
1/21/2022				0.826 (U)		
1/24/2022	0.692 (U)					
1/25/2022		0.415 (U)				
Mean	0.8038	0.7509	1.14	1.186	0.8233	1.002
Std. Dev.	0.342	0.3912	0.4084	0.4842	0.405	0.4877
Upper Lim.	1.026	1.005	1.406	1.501	1.087	1.319
Lower Lim.	0.5813	0.4964	0.8744	0.8706	0.5598	0.6845

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						2.49
9/1/2016				4.47	2.37	
9/7/2016			0.876 (U)			
12/6/2016						0.348 (U)
12/8/2016			0.955	2.88	2.87	
3/28/2017		1.36				0.693 (U)
3/30/2017	0.297 (U)				1.71	
3/31/2017			0.102 (U)	1.14		
5/12/2017	0.693 (U)	1.15				
6/15/2017	0.435 (U)	0.765 (U)				
7/11/2017		1.13				1.38
7/12/2017	0.703 (U)					
7/13/2017			1.08 (U)	2.37	1.78	
10/24/2017		1.24				
10/25/2017			1.46			2.06
10/26/2017	0.984 (U)			2.88	3.74	
2/27/2018		1.82				1.97
2/28/2018			0.882 (U)			
3/1/2018	0.743 (U)			2.21		
3/2/2018					2.26	
7/10/2018		1.37				1.03 (U)
7/11/2018			0.924 (U)			
7/12/2018	0.918 (U)			1.73	1.81	
11/6/2018		1.2				1.13
11/7/2018			0.654 (U)	1.72	1.94	
11/8/2018	1.47					
8/27/2019		1.79				1.81
8/28/2019			0.883 (U)			
8/29/2019	2.21			3.05	2.37	
10/15/2019		2.11 (U)				
10/16/2019						1.63
10/17/2019			1.38	2.58		
10/18/2019	1.32				1.42	
3/2/2020		1.99				2.28
3/4/2020	1.39		0.722 (U)	1.68	1.31	
8/12/2020		1.95		2.56		1.13
8/13/2020	1.48 (U)		1.23 (U)		1.74	
9/22/2020		1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020				2.3 (U)	1.51 (U)	
9/24/2020	1.49					
3/1/2021		1.05 (U)				
3/2/2021						0.971 (U)
3/3/2021	1.05 (U)		0.92 (U)	1.27 (U)	1.41	
9/9/2021	1.81					
9/10/2021		1.46		2.32	2.21	1.15
9/13/2021			1.15 (U)			
1/20/2022	0.61 (U)		0.0465 (U)			
1/21/2022				0.785 (U)		
1/24/2022		0.944 (U)			0.668 (U)	0.807 (U)
Mean	1.1	1.422	0.8934	2.247	1.945	1.392
Std. Dev.	0.5247	0.4014	0.3853	0.8871	0.7088	0.6017
Upper Lim.	1.442	1.684	1.144	2.824	2.406	1.784

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Lower Lim.	0.7588	1.161	0.6427	1.669	1.484	1.001

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-101D	B-104D	B-106D	B-107D
8/30/2016	0.919 (U)	1.33				
12/6/2016	0.407 (U)	0.828 (U)				
3/28/2017		1.06				
3/29/2017	0.28 (U)					
7/11/2017	0.209 (U)	0.62 (U)				
10/24/2017	0.615 (U)	1.21				
2/27/2018	1.05 (U)	1.79				
7/10/2018	0.363 (U)					
7/11/2018		1.81				
11/6/2018	0.577 (U)	1.13				
8/27/2019		1.55				
8/28/2019	0.815 (U)					
10/16/2019	0.999 (U)					
10/17/2019		0.702 (U)				
3/3/2020	0.481 (U)	1.37				
8/11/2020		0.819 (U)				
8/12/2020	0.721 (U)					
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
12/9/2020				15.2		1.49
12/17/2020					0.952 (U)	
1/12/2021			1.91	17		
3/2/2021	0.751 (U)	1.29 (U)				
3/4/2021				14.5	0.681 (U)	2.14
3/5/2021			2.17			
9/10/2021		1.28				
9/13/2021	0.916 (U)		1.8		0.625 (U)	0.813 (U)
9/14/2021				9.6		
1/24/2022				11.9		1.14 (U)
1/25/2022	0.356 (U)				0.454 (U)	
1/26/2022		0.789 (U)	1.21			
Mean	0.6412	1.171	1.773	13.64	0.678	1.396
Std. Dev.	0.2687	0.3608	0.4058	2.907	0.2066	0.568
Upper Lim.	0.816	1.405	2.694	18.51	1.147	2.685
Lower Lim.	0.4664	0.9357	0.8511	8.768	0.2089	0.1062

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-109D	B-111D	B-56	B-62	B-63
1/28/2019						2.14 (U)
1/30/2019					1.97 (U)	
10/21/2019					1.82	
10/22/2019						1.28 (U)
8/13/2020					1.63	
8/17/2020				1.15 (U)		
9/24/2020					1.28 (U)	
9/28/2020				1.39		
12/9/2020	1.31 (U)		12.3			
1/12/2021			9.63			
1/13/2021		11.8				
3/3/2021				1.01 (U)		
3/4/2021	2.02					
3/5/2021			9.05			
3/8/2021		12.1				
3/12/2021					1.18 (U)	
9/9/2021					1.7	
9/10/2021		9.45				
9/13/2021				0.854 (U)		
9/14/2021	0.917 (U)		4.39			1.68
1/20/2022		16.2			1.71	0.846 (U)
1/24/2022	0.812 (U)		5.68			
1/27/2022				0.831 (U)		
Mean	1.265	12.39	8.21	1.047	1.613	1.487
Std. Dev.	0.5472	2.804	3.18	0.231	0.2846	0.553
Upper Lim.	2.507	18.75	13.54	1.434	1.951	2.742
Lower Lim.	0.02236	6.021	2.882	0.6598	1.275	0.231

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-93
10/21/2019	0.63 (U)	
8/17/2020	0.662 (U)	
8/19/2020		1.19 (U)
9/28/2020	0.747 (U)	1.54
3/9/2021		0.786 (U)
9/14/2021	1.03 (U)	
9/15/2021		1.84
1/25/2022	0.33 (U)	
1/26/2022		0.758 (U)
Mean	0.6798	1.223
Std. Dev.	0.2512	0.4716
Upper Lim.	1.101	2.013
Lower Lim.	0.2589	0.4326

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1	0.06 (J)			0.06 (J)	
9/1/2016			0.02 (J)			
9/6/2016				0.17 (J)		0.11 (J)
12/6/2016	1.3	0.06 (J)			0.1 (J)	
12/7/2016			0.16 (J)	0.3		0.11 (J)
3/29/2017	1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017				0.12 (J)		<0.1
7/12/2017	1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
10/24/2017	2.1	<0.1				
10/25/2017			0.6		<0.1	0.26 (J)
11/15/2017	1.4			0.44		
2/27/2018	2.3	<0.1	0.34		<0.1	
2/28/2018				0.18		<0.1
7/11/2018			<0.1		<0.1	<0.1
11/6/2018	2	<0.1				
11/7/2018			<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019	1.7	0.052 (J)	0.065 (J)			
3/13/2019				0.13 (J)	0.042 (J)	
3/14/2019						0.057 (J)
8/27/2019	1.4	<0.1	<0.1		<0.1	
8/28/2019				0.091 (J)		<0.1
10/15/2019	1.4	<0.1	<0.1			
10/16/2019				0.14 (J)	0.052 (J)	
10/17/2019						0.079 (J)
3/2/2020		0.064 (J)	0.071 (J)			
3/3/2020	1.5			0.078 (J)	<0.1	<0.1
8/11/2020	1.4	<0.1	<0.1		<0.1	
8/12/2020				0.051 (J)		
8/13/2020						<0.1
9/22/2020		<0.1	<0.1		<0.1	
9/23/2020				0.058 (J)		<0.1
9/24/2020	0.97					
3/2/2021		<0.1		0.084 (J)	<0.1	<0.1
3/3/2021			0.085 (J)			
3/4/2021	1.8					
9/9/2021		<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1
9/10/2021	2.2					
1/24/2022						<0.1
1/25/2022		<0.1	0.093 (J)	0.063 (J)	<0.1	
1/26/2022	1.8					
Mean	1.616	0.08163	0.1549	0.1511	0.08671	0.1051
Std. Dev.	0.3859	0.02569	0.1411	0.1082	0.02582	0.04225
Upper Lim.	1.858	0.1	0.2	0.203	0.1	0.11
Lower Lim.	1.374	0.052	0.085	0.0833	0.06	0.079

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
9/2/2016				0.66	0.07 (J)	0.3
9/7/2016	0.32					
12/7/2016		0.37		0.66		
12/8/2016	0.31				0.14 (J)	0.12 (J)
3/29/2017		0.35		0.34		0.11 (J)
3/30/2017	0.1 (J)		0.06 (J)		<0.1	
5/11/2017			0.06 (J)			
6/15/2017			0.07 (J)			
7/11/2017			0.04 (J)			
7/12/2017	0.27 (J)	0.34		0.41	0.04 (J)	
7/13/2017						0.09 (J)
10/24/2017			0.43			
10/25/2017	0.49	0.9		0.68	0.34	0.25 (J)
2/27/2018			0.28			
2/28/2018	0.54	1.2		0.76	<0.1	<0.1
7/11/2018	0.15 (J)	0.37	0.6	1.3	<0.1	
7/12/2018						0.13 (J)
11/6/2018			<0.1			
11/7/2018	<0.3 (J)	<0.3 (J)		<0.3 (J)	<0.1	<0.1
3/12/2019			0.052 (J)			
3/13/2019	0.084 (J)	0.22 (J)		0.45	0.043 (J)	
3/14/2019						0.042 (J)
8/27/2019	0.24 (J)		<0.1			
8/28/2019		0.2				
8/29/2019				0.78	0.079 (J)	0.054 (J)
10/16/2019		0.23 (J)				
10/17/2019			0.042 (J)	0.26 (J)	<0.1	
10/18/2019	0.086 (J)					<0.1
3/3/2020		0.056 (J)	<0.1		<0.1	<0.1
3/4/2020	<0.1			1.5		
8/11/2020		0.2	<0.1			
8/13/2020				0.9		
8/14/2020	0.069 (J)				<0.1	<0.1
9/22/2020		0.084 (J)		0.15		
9/23/2020			<0.1			
9/24/2020	0.056 (J)				<0.1	<0.1
3/2/2021		0.19	<0.1	1.4		
3/3/2021	0.085 (J)				<0.1	<0.1
9/9/2021		0.18	0.053 (J)		<0.1	<0.1
9/10/2021				0.25		<0.1
9/13/2021	0.063 (J)					
1/20/2022			<0.1		<0.1	<0.1
1/21/2022				1.3		
1/24/2022	<0.1					
1/25/2022		0.16				
Mean	0.1978	0.3588	0.1404	0.7118	0.1066	0.1174
Std. Dev.	0.1524	0.3073	0.1539	0.4356	0.06454	0.06341
Upper Lim.	0.219	0.4699	0.28	0.9847	0.14	0.12
Lower Lim.	0.08606	0.1718	0.053	0.4388	0.079	0.09

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						1
9/1/2016				1.8	1.5	
9/7/2016			0.02 (J)			
12/6/2016						0.76
12/8/2016			0.06 (J)	1.1	1.6	
3/28/2017		0.17 (J)				1.2
3/30/2017	0.12 (J)				0.86	
3/31/2017			<0.1	0.88		
5/12/2017	0.36	<0.1				
6/15/2017	0.21 (J)	0.02 (J)				
7/11/2017		0.02 (J)				0.7
7/12/2017	0.22 (J)					
7/13/2017			<0.1	0.84	1.1	
10/24/2017		<0.1				
10/25/2017			<0.1			1.4
10/26/2017	0.66			1	1.7	
11/15/2017		0.79				
2/27/2018		<0.1				1.3
2/28/2018			<0.1			
3/1/2018	0.18			1.4		
3/2/2018					1.1	
7/11/2018			<0.1			
7/12/2018	0.25 (J)			0.96	0.65	
11/6/2018		<0.1				<0.3 (J)
11/7/2018			<0.1	0.74	0.63	
11/8/2018	<0.3 (J)					
3/12/2019		0.082 (J)				0.31
3/14/2019	0.092 (J)		<0.1	1.6	1.4	
8/27/2019		<0.1				0.32
8/28/2019			<0.1			
8/29/2019	0.095 (J)			0.52	0.78	
10/15/2019		<0.1				
10/16/2019						0.32
10/17/2019			<0.1	0.46		
10/18/2019	0.079 (J)				0.46	
3/2/2020		<0.1				0.33
3/4/2020	0.075 (J)		<0.1	0.74	0.7	
8/12/2020		<0.1		0.22		0.13
8/13/2020	0.1		<0.1		0.47	
9/22/2020		<0.1	<0.1			0.12
9/23/2020				0.11	0.32	
9/24/2020	0.075 (J)					
3/1/2021		<0.1				
3/2/2021						0.15
3/3/2021	0.063 (J)		<0.1	0.71	0.67	
9/9/2021	0.084 (J)					
9/10/2021		<0.1		0.22	0.47	0.16
9/13/2021			<0.1			
1/20/2022	<0.1		<0.1			
1/21/2022				0.64		
1/24/2022		<0.1			0.59	0.19
Mean	0.1802	0.1342	0.09294	0.82	0.8824	0.5431

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Std. Dev.	0.1523	0.1722	0.02114	0.4704	0.437	0.4512
Upper Lim.	0.2156	0.17	0.1	1.115	1.156	0.6778
Lower Lim.	0.09287	0.082	0.06	0.5252	0.6086	0.2217

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-101D	B-102D	B-104D	B-106D
8/30/2016	0.39	0.78				
12/6/2016	0.47	1.1				
3/28/2017		1.1				
3/29/2017	0.51					
7/11/2017	0.2 (J)	1.1				
10/24/2017	0.82	1.7				
2/27/2018	0.59	1.2				
7/11/2018		1.3				
11/6/2018	0.35	1.1				
3/12/2019	0.35	0.97				
8/27/2019		0.68				
8/28/2019	0.098 (J)					
10/16/2019	0.14 (J)					
10/17/2019		1.2				
3/3/2020	<0.1	1.4				
8/11/2020		1.3				
8/12/2020	0.056 (J)					
9/22/2020		0.99				
9/23/2020	<0.1					
12/9/2020					0.33	
12/17/2020				0.079 (J)		0.052 (J)
1/11/2021				0.077 (J)		
1/12/2021			0.052 (J)		0.36	
3/2/2021	0.059 (J)	0.93				
3/4/2021				0.11	0.43	0.055 (J)
3/5/2021			0.053 (J)			
9/10/2021		2		0.083 (J)		
9/13/2021	0.069 (J)		0.051 (J)			0.052 (J)
9/14/2021					0.5	
1/24/2022					0.28	
1/25/2022	<0.1					<0.1
1/26/2022		1.2	<0.1			
1/27/2022				0.062 (J)		
Mean	0.2751	1.179	0.064	0.0822	0.38	0.06475
Std. Dev.	0.2307	0.3162	0.02401	0.01746	0.08631	0.02354
Upper Lim.	0.355	1.378	0.1	0.1115	0.5246	0.1
Lower Lim.	0.09666	0.9813	0.051	0.05295	0.2354	0.052

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	B-56	B-62	B-77	B-82
1/30/2019				0.43		
10/21/2019				0.23 (J)		0.2 (J)
10/24/2019					0.096 (J)	
8/13/2020				0.11	<0.1	
8/17/2020			0.19			<0.1
9/24/2020				0.093 (J)	<0.1	
9/28/2020			0.098 (J)			<0.1
12/9/2020		0.33				
1/12/2021		0.32				
1/13/2021	0.17					
3/3/2021			0.34			
3/4/2021					<0.1	
3/5/2021		0.51				
3/8/2021	0.14					
3/12/2021				0.11		
9/9/2021				0.14		
9/10/2021	0.15					
9/13/2021			0.2			
9/14/2021		0.57			0.078 (J)	0.052 (J)
1/20/2022	0.11			0.099 (J)	<0.1	
1/24/2022		0.38				
1/25/2022						<0.1
1/27/2022			0.21			
Mean	0.1425	0.422	0.2076	0.1731	0.09567	0.1104
Std. Dev.	0.025	0.1121	0.08648	0.1226	0.008802	0.05423
Upper Lim.	0.1993	0.6099	0.3525	0.43	0.1	0.2
Lower Lim.	0.08574	0.2341	0.06269	0.093	0.078	0.052

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-93
10/21/2019	0.13 (J)	
8/14/2020	0.05 (J)	
8/19/2020		0.32
9/25/2020	<0.1	
9/28/2020		0.3
3/4/2021	0.071 (J)	
3/9/2021		0.34
9/15/2021		0.34
9/16/2021	0.066 (J)	
1/21/2022	<0.1	
1/26/2022		0.41
Mean	0.08617	0.342
Std. Dev.	0.02915	0.04147
Upper Lim.	0.11	0.4115
Lower Lim.	0.03719	0.2725

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<0.001	<0.001			<0.001	
9/1/2016			<0.001			
9/6/2016				<0.001		<0.001
12/6/2016	<0.001	<0.001			<0.001	
12/7/2016			<0.001	<0.001		0.0002 (J)
3/29/2017	<0.001	<0.001	<0.001		<0.001	
3/30/2017				0.0002 (J)		0.0001 (J)
7/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
10/24/2017	<0.001	<0.001				
10/25/2017			<0.001		<0.001	<0.001
11/15/2017				<0.001		
2/27/2018	<0.001	<0.001	<0.001		<0.001	
2/28/2018				<0.001		<0.001
7/11/2018			<0.001		<0.001	<0.001
11/6/2018	<0.001	<0.001				
11/7/2018			<0.001	<0.001	<0.001	<0.001
8/27/2019	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019				<0.001		5.9E-05 (J)
9/17/2019			<0.001			
10/15/2019	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019				<0.001	<0.001	
10/17/2019						<0.001
3/2/2020		0.00015 (J)	<0.001			
3/3/2020	0.00011 (J)			<0.001	<0.001	<0.001
8/11/2020	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020				<0.001		
8/13/2020						0.0012 (J)
9/22/2020		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020				9.8E-05 (J)		8.2E-05 (J)
9/24/2020	0.00013 (J)					
3/2/2021		<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021			<0.001			
3/4/2021	9.2E-05 (J)					
9/9/2021		<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2021	<0.001					
1/24/2022						<0.001
1/25/2022		<0.001	<0.001	<0.001	<0.001	
1/26/2022	<0.001					
Mean	0.0006521	0.0006999	0.0008947	0.0008865	0.0008264	0.0007338
Std. Dev.	0.0004424	0.0004397	0.0002972	0.0003001	0.0003733	0.0004393
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0012
Lower Lim.	0.00011	0.0001	0.00011	0.0002	9.6E-05	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
9/2/2016				<0.001	0.0002 (J)	
9/7/2016	<0.001					
12/7/2016		<0.001		<0.001		
12/8/2016	<0.001				<0.001	
3/29/2017		<0.001		<0.001		
3/30/2017	0.0001 (J)		0.0001 (J)		0.0004 (J)	<0.001
5/11/2017			9E-05 (J)			
5/12/2017						<0.001
6/15/2017			0.0001 (J)			<0.001
7/11/2017			<0.001			
7/12/2017	<0.001	<0.001		<0.001	0.0001 (J)	<0.001
10/24/2017			<0.001			
10/25/2017	<0.001	<0.001		<0.001	<0.001	
10/26/2017						<0.001
2/27/2018			<0.001			
2/28/2018	<0.001	<0.001		<0.001	<0.001	
3/1/2018						<0.001
7/11/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
7/12/2018						<0.001
11/6/2018			<0.001			
11/7/2018	<0.001	<0.001		<0.001	<0.001	
11/8/2018						<0.001
8/27/2019	9E-05 (J)		6E-05 (J)			
8/28/2019		0.00026 (J)				
8/29/2019				0.00015 (J)	0.00023 (J)	6.6E-05 (J)
10/16/2019		<0.001				
10/17/2019			8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)	
10/18/2019	7.4E-05 (J)					<0.001
3/3/2020		7E-05 (J)	<0.001		0.00015 (J)	
3/4/2020	0.00013 (J)			0.00068 (J)		<0.001
8/11/2020		5.3E-05 (J)	6.4E-05 (J)			
8/13/2020				0.00044 (J)		<0.001
8/14/2020	0.00017 (J)				<0.001	
9/22/2020		0.00016 (J)		0.00013 (J)		
9/23/2020			9.4E-05 (J)			
9/24/2020	7.9E-05 (J)				0.00014 (J)	<0.001
3/2/2021		4.5E-05 (J)	0.00014 (J)	0.00047 (J)		
3/3/2021	0.00015 (J)				<0.001	<0.001
9/9/2021		<0.001	<0.001		<0.001	<0.001
9/10/2021				<0.001		
9/13/2021	<0.001					
1/20/2022			<0.001		<0.001	<0.001
1/21/2022				<0.001		
1/24/2022	<0.001					
1/25/2022		<0.001				
Mean	0.0006121	0.0007243	0.0005459	0.0007479	0.0006416	0.0009416
Std. Dev.	0.0004549	0.0004251	0.0004693	0.0003629	0.0004258	0.0002335
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	7E-05	8.6E-05	0.00015	0.00014	6.6E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					0.0002 (J)	
9/1/2016			0.0005 (J)	0.0008 (J)		
9/7/2016		0.0002 (J)				
12/6/2016					0.0004 (J)	<0.001
12/8/2016		0.0002 (J)	<0.001	0.0019 (J)		
3/28/2017	0.0002 (J)				<0.001	
3/29/2017						0.0001 (J)
3/30/2017				0.0035 (J)		
3/31/2017		0.0004 (J)	0.0009 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	<0.001
7/13/2017		0.0004 (J)	0.0007 (J)	0.002 (J)		
10/24/2017	<0.001					<0.001
10/25/2017		0.0002 (J)			0.0024 (J)	
10/26/2017			0.0009 (J)	0.0022 (J)		
2/27/2018	<0.001				<0.001	<0.001
2/28/2018		<0.001				
3/1/2018			<0.001			
3/2/2018				<0.001		
7/11/2018		0.00052 (J)				
7/12/2018			0.001 (J)	0.0014 (J)		
11/6/2018	<0.001				<0.001	<0.001
11/7/2018		<0.005 (J)	<0.005 (J)	<0.005 (J)		
8/27/2019	4.9E-05 (J)				5.1E-05 (J)	
8/28/2019		0.00036 (J)				8.2E-05 (J)
8/29/2019			0.0006 (J)	0.001 (J)		
10/15/2019	0.0001 (J)					
10/16/2019					8.5E-05 (J)	0.00029 (J)
10/17/2019		0.00026 (J)	0.0011 (J)			
10/18/2019				0.00095 (J)		
3/2/2020	<0.001				5.1E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		0.0001 (J)	0.00088 (J)	0.0012 (J)		
8/12/2020	<0.001		0.0004 (J)		6.3E-05 (J)	0.0007 (J)
8/13/2020		0.0016 (J)		0.00092 (J)		
9/22/2020	<0.001	0.00074 (J)			4.8E-05 (J)	
9/23/2020			0.00053 (J)	0.001 (J)		0.00011 (J)
3/1/2021	0.00012 (J)					
3/2/2021					8E-05 (J)	0.00027 (J)
3/3/2021		0.00024 (J)	0.0007 (J)	0.0011		
9/10/2021	<0.001		<0.001	0.00099 (J)	<0.001	
9/13/2021		<0.001				<0.001
1/20/2022		<0.001				
1/21/2022			<0.001			
1/24/2022	<0.001			0.0011	<0.001	
1/25/2022						<0.001
Mean	0.0007646	0.0008263	0.001076	0.001629	0.0006252	0.0006521
Std. Dev.	0.0004051	0.001188	0.001068	0.001139	0.0006613	0.0004097
Upper Lim.	0.001	0.0004511	0.001	0.0022	0.001	0.001
Lower Lim.	0.00012	0.0001577	0.00053	0.00095	5.1E-05	0.00011

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-104D	B-107D
8/30/2016	<0.001					
12/6/2016	<0.001					
3/28/2017	<0.001					
7/11/2017	<0.001					
10/24/2017	<0.001					
2/27/2018	<0.001					
7/11/2018	<0.001					
11/6/2018	<0.001					
8/27/2019	<0.001					
10/17/2019	<0.001					
3/3/2020	0.00017 (J)					
8/11/2020	<0.001					
8/17/2020		8.8E-05 (J)				
9/22/2020	0.00015 (J)					
9/25/2020		0.00021 (J)				
12/9/2020					5.1E-05 (J)	4.4E-05 (J)
12/17/2020				3.7E-05 (J)		
1/11/2021				5E-05 (J)		
1/12/2021			<0.001		<0.001	
3/2/2021	0.00028 (J)					
3/4/2021				5.9E-05 (J)	<0.001	<0.001
3/5/2021			6.5E-05 (J)			
3/8/2021		0.00018 (J)				
9/10/2021	<0.001			<0.001		
9/13/2021		<0.001	<0.001			<0.001
9/14/2021					<0.001	
1/21/2022		<0.001				
1/24/2022					<0.001	<0.001
1/26/2022	<0.001		<0.001			
1/27/2022				<0.001		
Mean	0.00085	0.0004956	0.0007663	0.0004292	0.0008102	0.000761
Std. Dev.	0.0003235	0.0004626	0.0004675	0.0005211	0.0004244	0.000478
Upper Lim.	0.001	0.0002658	0.001	0.001	0.001	0.001
Lower Lim.	0.00028	7.745E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-63	B-82	B-83	B-88
1/28/2019			<0.001			
9/11/2019			4.7E-05 (J)			
9/23/2019				0.00016 (J)		
10/21/2019				<0.001	0.00012 (J)	
10/22/2019			7.3E-05 (J)			
8/14/2020					0.00092 (J)	
8/17/2020		0.00022 (J)		5.9E-05 (J)		0.00081 (J)
9/25/2020					6.5E-05 (J)	0.00035 (J)
9/28/2020		9.1E-05 (J)		0.00011 (J)		
12/9/2020	5.8E-05 (J)					
1/12/2021	5.1E-05 (J)					
3/3/2021		0.0001 (J)				
3/4/2021					0.00017 (J)	
3/5/2021	<0.001					0.012
9/13/2021		<0.001				<0.001
9/14/2021	<0.001		<0.001	<0.001		
9/16/2021					<0.001	
1/20/2022			<0.001			
1/21/2022					<0.001	
1/24/2022	<0.001					
1/25/2022				<0.001		
1/27/2022		<0.001				0.0022
Mean	0.0006218	0.0004822	0.000624	0.0005548	0.0005458	0.003272
Std. Dev.	0.0005179	0.0004754	0.0005149	0.0004887	0.0004704	0.004927
Upper Lim.	0.001	0.0002446	0.001	0.001	0.001	0.01033
Lower Lim.	5.1E-05	6.493E-05	4.7E-05	5.9E-05	6.5E-05	1.383E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.00012 (J)
9/28/2020	0.00012 (J)
3/9/2021	<0.001
9/15/2021	<0.001
1/26/2022	<0.001
Mean	0.000648
Std. Dev.	0.000482
Upper Lim.	0.001
Lower Lim.	0.00012

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016			<0.03			
9/6/2016				0.0029 (J)		0.0064 (J)
12/6/2016	<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016			<0.03	0.003 (J)		0.0066 (J)
3/29/2017	0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017				0.0035 (J)		0.0061 (J)
7/12/2017	0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
10/24/2017	0.0022 (J)	0.0024 (J)				
10/25/2017			<0.03		0.0032 (J)	0.0061 (J)
11/15/2017				0.0028 (J)		
2/27/2018	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018				<0.03		0.0062 (J)
7/11/2018			<0.03		0.0034 (J)	0.0058 (J)
11/6/2018	<0.03	<0.03				
11/7/2018			<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019				0.0033 (J)		0.0063 (J)
9/17/2019			0.0011 (J)			
10/15/2019	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019				0.0029 (J)	0.0032 (J)	
10/17/2019						0.0064 (J)
3/2/2020		0.0023 (J)	<0.03			
3/3/2020	0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
8/11/2020	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020				0.0034 (J)		
8/13/2020						0.0089 (J)
9/22/2020		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020				0.0033 (J)		0.006 (J)
9/24/2020	0.0049 (J)					
3/2/2021		0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021			<0.03			
3/4/2021	0.0042 (J)					
9/9/2021		0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)
9/10/2021	0.0051 (J)					
1/24/2022						0.0051 (J)
1/25/2022		0.0021 (J)	<0.03	0.0037 (J)	0.0043 (J)	
1/26/2022	0.0059 (J)					
Mean	0.00538	0.003113	0.01089	0.0048	0.004694	0.006173
Std. Dev.	0.004126	0.003305	0.006559	0.004151	0.002975	0.0008681
Upper Lim.	0.006718	0.0028	0.015	0.0037	0.0044	0.0064
Lower Lim.	0.002851	0.0019	0.0011	0.0029	0.0034	0.0057

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (J)				
9/2/2016				0.0021 (J)	0.0057 (J)	0.0046 (J)
9/7/2016	<0.03					
12/7/2016		0.0034 (J)		0.005 (J)		
12/8/2016	<0.03				0.0054 (J)	0.0047 (J)
3/29/2017		0.0031 (J)		0.0021 (J)		0.0043 (J)
3/30/2017	<0.03		0.0807		0.0065 (J)	
5/11/2017			0.085			
6/15/2017			0.0781			
7/11/2017			0.0731			
7/12/2017	<0.03	0.0032 (J)		0.0019 (J)	0.0057 (J)	
7/13/2017						0.0044 (J)
10/24/2017			0.0995			
10/25/2017	<0.03	0.0031 (J)		0.0022 (J)	0.006 (J)	0.0042 (J)
2/27/2018			0.0875			
2/28/2018	<0.03	0.0031 (J)		0.0019 (J)	0.0061 (J)	0.0043 (J)
7/11/2018	<0.03	0.0034 (J)	0.033 (J)	0.0022 (J)	0.0057 (J)	
7/12/2018						0.0036 (J)
11/6/2018			<0.03			
11/7/2018	<0.03	<0.03		<0.03	<0.03	<0.03
8/27/2019	0.00089 (J)		0.032			
8/28/2019		0.0032 (J)				
8/29/2019				0.0093 (J)	0.0061 (J)	0.0035 (J)
10/16/2019		0.0026 (J)				
10/17/2019			0.029 (J)	0.0075 (J)	0.0063 (J)	
10/18/2019	0.00096 (J)					0.0041 (J)
3/3/2020		0.0034 (J)	0.026 (J)		0.0065 (J)	0.0046 (J)
3/4/2020	0.0011 (J)			0.019 (J)		
8/11/2020		0.0031 (J)	0.028 (J)			
8/13/2020				0.012 (J)		
8/14/2020	0.0015 (J)				0.0058 (J)	0.0039 (J)
9/22/2020		0.0034 (J)		0.0026 (J)		
9/23/2020			0.022 (J)			
9/24/2020	0.00096 (J)				0.0062 (J)	0.0037 (J)
3/2/2021		0.003 (J)	0.023 (J)	0.011 (J)		
3/3/2021	0.0011 (J)				0.0054 (J)	0.0038 (J)
9/9/2021		0.0035 (J)	0.024 (J)		0.006 (J)	
9/10/2021				0.0023 (J)		0.0039 (J)
9/13/2021	<0.03					
1/20/2022			0.024 (J)		0.0058 (J)	0.0032 (J)
1/21/2022				0.012 (J)		
1/24/2022	<0.03					
1/25/2022		0.0031 (J)				
Mean	0.009782	0.003937	0.04749	0.006756	0.006512	0.004737
Std. Dev.	0.006959	0.002958	0.02995	0.005599	0.002288	0.00277
Upper Lim.	0.015	0.0035	0.085	0.012	0.0063	0.0046
Lower Lim.	0.00096	0.003	0.023	0.0021	0.0057	0.0036

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (J)
9/1/2016				0.0854	0.125	
9/7/2016			0.012 (J)			
12/6/2016						0.0046 (J)
12/8/2016			0.0118 (J)	0.0667	0.122	
3/28/2017		0.0031 (J)				0.0028 (J)
3/30/2017	0.0162 (J)				0.144	
3/31/2017			0.0119 (J)	0.0767		
5/12/2017	0.0036 (J)	0.0027 (J)				
6/15/2017	0.0063 (J)	0.0025 (J)				
7/11/2017		0.0022 (J)				0.0031 (J)
7/12/2017	0.0068 (J)					
7/13/2017			0.0116 (J)	0.0743	0.143	
10/24/2017		0.0024 (J)				
10/25/2017			0.0122 (J)			0.0055 (J)
10/26/2017	0.0049 (J)			0.071	0.115	
2/27/2018		0.0027 (J)				0.0066 (J)
2/28/2018			0.0122 (J)			
3/1/2018	0.0759			0.0772		
3/2/2018					0.129	
7/11/2018			0.01 (J)			
7/12/2018	0.0047 (J)			0.073	0.12	
11/6/2018		<0.03				<0.03
11/7/2018			<0.03	0.082	0.12	
11/8/2018	<0.03					
8/27/2019		0.0033 (J)				0.008 (J)
8/28/2019			0.01 (J)			
8/29/2019	0.0017 (J)			0.056	0.11	
10/15/2019		0.0029 (J)				
10/16/2019						0.006 (J)
10/17/2019			0.011 (J)	0.066		
10/18/2019	0.0039 (J)				0.11	
3/2/2020		0.0035 (J)				0.0079 (J)
3/4/2020	0.004 (J)		0.0091 (J)	0.063	0.12	
8/12/2020		0.0031 (J)		0.054		0.0067 (J)
8/13/2020	0.0052 (J)		0.011 (J)		0.098	
9/22/2020		0.0026 (J)	0.0099 (J)			0.0065 (J)
9/23/2020				0.046	0.1	
9/24/2020	0.0045 (J)					
3/1/2021		0.0035 (J)				
3/2/2021						0.0064 (J)
3/3/2021	0.014 (J)		0.0079 (J)	0.049	0.096	
9/9/2021	0.0081 (J)					
9/10/2021		0.0035 (J)		0.053	0.095	0.0071 (J)
9/13/2021			0.015 (J)			
1/20/2022	0.0029 (J)		0.0069 (J)			
1/21/2022				0.055		
1/24/2022		0.0038 (J)			0.11	0.0068 (J)
Mean	0.01111	0.003787	0.01109	0.06552	0.1161	0.006373
Std. Dev.	0.01783	0.003138	0.002172	0.01223	0.015	0.002953
Upper Lim.	0.0118	0.0038	0.01251	0.07348	0.1258	0.00808
Lower Lim.	0.003707	0.0025	0.00968	0.05756	0.1063	0.004375

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-101D	B-102D	B-104D
8/30/2016	0.005 (J)	0.0212 (J)				
12/6/2016	0.0066 (J)	0.0242 (J)				
3/28/2017		0.0249 (J)				
3/29/2017	0.0059 (J)					
7/11/2017	0.0045 (J)	0.022 (J)				
10/24/2017	0.0072 (J)	0.0281 (J)				
2/27/2018	0.0075 (J)	0.031 (J)				
7/11/2018		0.028 (J)				
11/6/2018	<0.03	<0.03				
8/27/2019		0.031				
8/28/2019	0.0048 (J)					
10/16/2019	0.0045 (J)					
10/17/2019		0.029 (J)				
3/3/2020	0.0052 (J)	0.028 (J)				
8/11/2020		0.032				
8/12/2020	0.0058 (J)					
8/17/2020			0.0013 (J)			
9/22/2020		0.025 (J)				
9/23/2020	0.0045 (J)					
9/25/2020			0.0027 (J)			
12/9/2020						0.039 (J)
12/17/2020					0.012 (J)	
1/11/2021					0.015 (J)	
1/12/2021				0.012 (J)		0.039
3/2/2021	0.0046 (J)	0.028 (J)				
3/4/2021					0.014 (J)	0.038
3/5/2021				0.015 (J)		
3/8/2021			0.0024 (J)			
9/10/2021		0.027 (J)			0.012 (J)	
9/13/2021	0.0034 (J)		0.0022 (J)	0.011 (J)		
9/14/2021						0.036
1/21/2022			0.0021 (J)			
1/24/2022						0.036
1/25/2022	0.0032 (J)					
1/26/2022		0.029 (J)		0.0098 (J)		
1/27/2022					0.013 (J)	
Mean	0.005847	0.02646	0.00214	0.01195	0.0132	0.0376
Std. Dev.	0.002818	0.004347	0.0005225	0.002223	0.001304	0.001517
Upper Lim.	0.006975	0.02929	0.003016	0.017	0.01538	0.04001
Lower Lim.	0.004221	0.02363	0.001264	0.006902	0.01102	0.03494

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-56
8/17/2020						0.0056 (J)
9/28/2020						0.005 (J)
12/9/2020		0.017 (J)	0.016 (J)		0.021 (J)	
12/17/2020	0.0048 (J)					
1/12/2021					0.021 (J)	
1/13/2021				0.016 (J)		
3/3/2021						0.0051 (J)
3/4/2021	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021					0.028 (J)	
3/8/2021				0.014 (J)		
9/10/2021				0.013 (J)		
9/13/2021	0.0056 (J)	0.014 (J)				0.0055 (J)
9/14/2021			0.015 (J)		0.029 (J)	
1/20/2022				0.014 (J)		
1/24/2022		0.015 (J)	0.014 (J)		0.026 (J)	
1/25/2022	0.0055 (J)					
1/27/2022						0.0061 (J)
Mean	0.005325	0.01525	0.01475	0.01425	0.025	0.00546
Std. Dev.	0.0003594	0.001258	0.0009574	0.001258	0.003808	0.0004393
Upper Lim.	0.006141	0.01811	0.01692	0.01711	0.03138	0.006196
Lower Lim.	0.004509	0.01239	0.01258	0.01139	0.01862	0.004724

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83
1/28/2019		<0.03				
1/30/2019	<0.03		<0.03			
9/11/2019	0.0078 (J)	0.0064 (J)				
9/12/2019			<0.03			
9/18/2019				0.0047 (J)		
9/23/2019					0.0039 (J)	
10/21/2019	0.0078 (J)		<0.03		0.0036 (J)	0.003 (J)
10/22/2019		0.0062 (J)				
10/24/2019				0.0036 (J)		
8/13/2020	0.0087 (J)			0.0018 (J)		
8/14/2020						0.0045 (J)
8/17/2020					0.0016 (J)	
9/24/2020	0.0084 (J)			0.00095 (J)		
9/25/2020						0.0018 (J)
9/28/2020					0.001 (J)	
3/4/2021				0.0011 (J)		0.0024 (J)
3/12/2021	0.0087 (J)	0.0066 (J)				
9/9/2021	0.0094 (J)					
9/14/2021		0.0064 (J)	<0.03	<0.03	0.001 (J)	
9/16/2021						0.0021 (J)
1/20/2022	0.0092 (J)	0.0062 (J)		<0.03		
1/21/2022						0.0022 (J)
1/25/2022			0.00073 (J)		0.00082 (J)	
Mean	0.009375	0.0078	0.01215	0.006021	0.001987	0.002667
Std. Dev.	0.002345	0.00353	0.006382	0.00628	0.001394	0.0009832
Upper Lim.	0.015	0.015	0.015	0.004192	0.004158	0.004017
Lower Lim.	0.0078	0.0062	0.00073	0.0008941	0.0006351	0.001316

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.011 (J)
9/28/2020	0.011 (J)
3/9/2021	0.012 (J)
9/15/2021	0.011 (J)
1/26/2022	0.013 (J)
Mean	0.0116
Std. Dev.	0.0008944
Upper Lim.	0.013
Lower Lim.	0.011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
1/24/2022						<0.0002
1/25/2022		<0.0002	<0.0002	<0.0002	<0.0002	
1/26/2022	<0.0002					
Mean	0.0001681	0.0001727	0.0001568	0.000184	0.0001744	0.0001912
Std. Dev.	5.494E-05	5.688E-05	6.349E-05	4.239E-05	5.537E-05	3.5E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8.1E-05	8E-05	8E-05	9E-05	8E-05	6E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
1/20/2022			<0.0002		<0.0002	<0.0002
1/21/2022				<0.0002		
1/24/2022	<0.0002					
1/25/2022		<0.0002				
Mean	0.0001441	0.0001737	0.0002046	0.0001781	0.0001606	0.0001697
Std. Dev.	6.323E-05	5.726E-05	0.000126	4.708E-05	6.202E-05	5.593E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	6E-05	9E-05	8.3E-05	9E-05	8E-05	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
1/20/2022	<0.0002		<0.0002			
1/24/2022		0.00022		<0.0002	0.00028	
1/25/2022						<0.0002
Mean	0.0001862	0.0002068	0.00019	0.0001912	0.0001983	0.0001527

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
Std. Dev.	5.548E-05	0.000115	4E-05	3.5E-05	0.0001154	6.222E-05
Upper Lim.	0.0001952	0.00022	0.0002	0.0002	0.0002535	0.0002
Lower Lim.	0.000126	0.00013	4E-05	6E-05	0.0001262	7.9E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-104D	B-107D	B-108D
8/30/2016	<0.0002					
12/6/2016	5E-05 (J)					
3/28/2017	<0.0002					
7/11/2017	<0.0002					
10/24/2017	<0.0002					
2/27/2018	4.2E-05 (J)					
7/11/2018	<0.0002					
11/6/2018	<0.0002					
8/27/2019	0.00021 (J)					
10/17/2019	0.00042 (J)					
3/3/2020	<0.0002					
8/11/2020	0.00026					
8/17/2020		0.00011 (J)				
9/22/2020	0.00013 (J)					
9/25/2020		<0.0002				
12/9/2020				7.9E-05 (J)	0.00016 (J)	0.00014 (J)
1/12/2021			<0.0002	<0.0002		
3/2/2021	0.00017 (J)					
3/4/2021				<0.0002	<0.0002	<0.0002
3/5/2021			0.00014 (J)			
9/10/2021	0.00014 (J)					
9/13/2021		<0.0002	<0.0002		<0.0002	
9/14/2021				<0.0002		<0.0002
1/21/2022		<0.0002				
1/24/2022				<0.0002	<0.0002	<0.0002
1/26/2022	0.00014 (J)		<0.0002			
Mean	0.0001851	0.0001775	0.000185	0.0001758	0.00019	0.000185
Std. Dev.	8.525E-05	4.5E-05	3E-05	5.411E-05	2E-05	3E-05
Upper Lim.	0.00021	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.00014	7.9E-05	0.00016	0.00014

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-82	B-88	B-93
9/23/2019			<0.0002		
10/21/2019			<0.0002		
8/17/2020		0.00016 (J)	0.00011 (J)	0.00011 (J)	
8/19/2020					0.00026
9/25/2020				<0.0002	
9/28/2020		<0.0002	<0.0002		0.00024 (J)
12/9/2020	9.4E-05 (J)				
1/12/2021	<0.0002				
3/3/2021		<0.0002			
3/5/2021	<0.0002			0.0001 (J)	
3/9/2021					0.00015 (J)
9/13/2021		<0.0002		<0.0002	
9/14/2021	<0.0002		<0.0002		
9/15/2021					9.8E-05 (J)
1/24/2022	<0.0002				
1/25/2022			<0.0002		
1/26/2022					<0.0002
1/27/2022		<0.0002		<0.0002	
Mean	0.0001788	0.000192	0.000185	0.000162	0.0001896
Std. Dev.	4.74E-05	1.789E-05	3.674E-05	5.215E-05	6.626E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002837
Lower Lim.	9.4E-05	0.00016	0.00011	0.0001	6.508E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-104D
9/6/2016	0.0371					
12/7/2016	0.0273					
3/28/2017				0.008 (J)		
3/30/2017	0.03	0.0009 (J)	0.0084 (J)			
5/11/2017		0.0009 (J)				
5/12/2017			0.0085 (J)	0.0062 (J)		
6/15/2017		<0.01	0.0104	0.0044 (J)		
7/11/2017		<0.01		0.0041 (J)		
7/12/2017	0.0323		0.0092 (J)			
10/24/2017		<0.01		0.0072 (J)		
10/26/2017			0.0077 (J)			
11/15/2017	0.0275					
2/27/2018		<0.01		0.0069 (J)		
2/28/2018	0.0093 (J)					
3/1/2018			0.0045 (J)			
7/11/2018		<0.01				
7/12/2018			0.012			
11/6/2018		<0.01		<0.01 (J)		
11/7/2018	0.018					
11/8/2018			0.012			
8/27/2019		0.002 (J)		0.0065 (J)		
8/28/2019	0.015					
8/29/2019			0.014			
10/15/2019				0.0061 (J)		
10/16/2019	0.014					
10/17/2019		0.0018 (J)				
10/18/2019			0.0091 (J)			
3/2/2020				0.0059 (J)		
3/3/2020	0.018	0.0022 (J)				
3/4/2020			0.0047 (J)			
8/11/2020		0.002 (J)				
8/12/2020	0.012			0.0057 (J)		
8/13/2020			0.013			
9/22/2020				0.0028 (J)		
9/23/2020	0.012	0.0022 (J)				
9/24/2020			0.0088 (J)			
12/9/2020						0.0012 (J)
1/12/2021					0.0022 (J)	<0.01
3/1/2021				0.0051 (J)		
3/2/2021	0.011	0.0021 (J)				
3/3/2021			0.0026 (J)			
3/4/2021						<0.01
3/5/2021				<0.01		
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		
9/13/2021				<0.01		
9/14/2021						<0.01
1/20/2022		0.0022 (J)	0.0073 (J)			
1/24/2022				0.0045 (J)		0.00083 (J)
1/25/2022	0.0093 (J)					
1/26/2022				<0.01		
Mean	0.01892	0.004912	0.008888	0.005907	0.00805	0.006406

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-104D
Std. Dev.	0.009349	0.00409	0.003128	0.001745	0.0039	0.004923
Upper Lim.	0.02437	0.01	0.01092	0.007089	0.01	0.01
Lower Lim.	0.01244	0.0018	0.006853	0.004724	0.0022	0.00083

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	B-66	B-88
1/30/2019			<0.01	
9/12/2019			0.0018 (J)	
10/21/2019			0.0015 (J)	
8/17/2020				0.0012 (J)
9/25/2020				0.0012 (J)
12/9/2020		0.0055 (J)		
1/12/2021		0.0054 (J)		
1/13/2021	0.0022 (J)			
3/5/2021		0.0067 (J)		<0.01
3/8/2021	0.0014 (J)			
9/10/2021	0.0011 (J)			
9/13/2021				<0.01
9/14/2021		0.013	<0.01	
1/20/2022	0.0012 (J)			
1/24/2022		0.0052 (J)		
1/25/2022			<0.01	
1/27/2022				<0.01
Mean	0.001475	0.00716	0.00666	0.00648
Std. Dev.	0.0004992	0.003317	0.004575	0.00482
Upper Lim.	0.002608	0.013	0.01	0.01
Lower Lim.	0.0003417	0.0052	0.0015	0.0012

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016	0.0366			0.0016 (J)		
9/1/2016		0.0017 (J)				
9/6/2016			0.0011 (J)		<0.005	
9/7/2016						0.007 (J)
12/6/2016	0.0026 (J)			<0.005		
12/7/2016		<0.005	0.0015 (J)		<0.005	
12/8/2016						0.0087 (J)
3/29/2017	0.0286	0.0017 (J)		<0.005		
3/30/2017			0.0015 (J)		<0.005	0.0099 (J)
7/12/2017	0.0257	0.0019 (J)	<0.005	<0.005	<0.005	0.0072 (J)
10/24/2017	0.0281					
10/25/2017		0.0024 (J)		<0.005	<0.005	0.0078 (J)
11/15/2017			0.0019 (J)			
2/27/2018	0.0667	<0.005		<0.005		
2/28/2018			<0.005		<0.005	<0.005
7/11/2018		<0.005		0.002 (J)	<0.005	0.007 (J)
11/6/2018	0.049					
11/7/2018		<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.005
8/27/2019	0.015	<0.005		<0.005		0.0073 (J)
8/28/2019			0.0039 (J)		<0.005	
9/17/2019		0.0014 (J)				
10/15/2019	0.071	0.0019 (J)				
10/16/2019			0.0031 (J)	0.0017 (J)		
10/17/2019					<0.005	
10/18/2019						0.0093 (J)
3/2/2020		<0.005				
3/3/2020	0.021		0.0062 (J)	0.0014 (J)	<0.005	
3/4/2020						0.0074 (J)
8/11/2020	0.023	0.0019 (J)		<0.005		
8/12/2020			0.0038 (J)			
8/13/2020					0.0018 (J)	
8/14/2020						0.0084 (J)
9/22/2020		<0.005		<0.005		
9/23/2020			0.0053 (J)		<0.005	
9/24/2020	0.074					0.015
3/2/2021			0.006	<0.005	<0.005	
3/3/2021		<0.005				0.0072
3/4/2021	0.05					
9/9/2021		<0.005	0.006	0.0017 (J)	<0.005	
9/10/2021	0.034					
9/13/2021						0.0071
1/24/2022					<0.005	0.0064
1/25/2022		<0.005	0.006	0.0016 (J)		
1/26/2022	0.015					
Mean	0.03602	0.003994	0.00442	0.004062	0.005112	0.007856
Std. Dev.	0.02171	0.00221	0.002391	0.002277	0.001528	0.002312
Upper Lim.	0.05073	0.005	0.004335	0.01	0.01	0.008991
Lower Lim.	0.02131	0.0017	0.001931	0.0016	0.0018	0.006416

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
9/1/2016	0.0093 (J)					0.0217
9/2/2016			0.0671	<0.005		
12/7/2016	<0.005		0.0056 (J)			
12/8/2016				<0.005		0.017
3/28/2017					<0.005	
3/29/2017	0.0071 (J)		0.0521	<0.005		
3/30/2017		<0.005				
3/31/2017						0.0133
5/11/2017		<0.005				
5/12/2017					<0.005	
6/15/2017		<0.005			<0.005	
7/11/2017		<0.005			<0.005	
7/12/2017	0.0065 (J)		0.0483			
7/13/2017				<0.005		0.0068 (J)
10/24/2017		<0.005			<0.005	
10/25/2017	0.0087 (J)		0.0506	<0.005		
10/26/2017						0.0097 (J)
2/27/2018		<0.005			<0.005	
2/28/2018	0.0114		0.0755	<0.005		
3/1/2018						0.0124
7/11/2018	0.0036 (J)	0.0045 (J)	0.022			
7/12/2018				0.0017 (J)		0.015
11/6/2018		<0.01 (J)			<0.005	
11/7/2018	<0.01 (J)		0.044	<0.005		<0.01 (J)
8/27/2019		0.0069 (J)			<0.005	
8/28/2019	0.004 (J)					
8/29/2019			0.029	<0.005		0.004 (J)
10/15/2019					0.0014 (J)	
10/16/2019	0.006 (J)					
10/17/2019		0.0051 (J)	0.071			0.0062 (J)
10/18/2019				<0.005		
3/2/2020					<0.005	
3/3/2020	0.0066 (J)	0.0047 (J)		<0.005		
3/4/2020			0.071			0.0065 (J)
8/11/2020	0.0096 (J)	0.0053 (J)				
8/12/2020					<0.005	0.002 (J)
8/13/2020			0.091			
8/14/2020				<0.005		
9/22/2020	0.0052 (J)		0.023		<0.005	
9/23/2020		0.0046 (J)				<0.005
9/24/2020				<0.005		
3/1/2021					<0.005	
3/2/2021	0.0091	0.0037 (J)	0.078			
3/3/2021				<0.005		0.0039 (J)
9/9/2021	0.0083	0.0031 (J)				
9/10/2021			0.031	<0.005	<0.005	0.0035 (J)
1/20/2022		0.0031 (J)		<0.005		
1/21/2022			0.041			0.0016 (J)
1/24/2022					<0.005	
1/25/2022	0.0029 (J)					
Mean	0.007081	0.005062	0.05001	0.004794	0.00476	0.008662
Std. Dev.	0.002521	0.001593	0.02408	0.000825	0.0009295	0.005836

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
Upper Lim.	0.008721	0.0053	0.06568	0.005	0.005	0.01246
Lower Lim.	0.005441	0.0037	0.03434	0.0017	0.0014	0.004865

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-101D
8/30/2016			0.0032 (J)	0.0833		
8/31/2016		0.0182				
9/1/2016	0.0084 (J)					
12/6/2016		0.012	<0.005	0.0065 (J)		
12/8/2016	0.0084 (J)					
3/28/2017		0.168		0.0954		
3/29/2017			0.0048 (J)			
3/30/2017	0.0079 (J)					
7/11/2017		0.0607	0.0031 (J)	0.0561		
7/13/2017	0.0062 (J)					
10/24/2017			0.0069 (J)	0.0653		
10/25/2017		0.034				
10/26/2017	0.0058 (J)					
2/27/2018		0.0348	<0.005	0.13		
3/2/2018	<0.005					
7/11/2018				0.045		
7/12/2018	0.013					
11/6/2018		<0.01 (J)	<0.01 (J)	0.12		
11/7/2018	<0.01 (J)					
8/27/2019		0.0031 (J)		0.067		
8/28/2019			<0.005			
8/29/2019	0.0023 (J)					
10/16/2019		0.015	0.0016 (J)			
10/17/2019				0.19		
10/18/2019	0.005 (J)					
3/2/2020		0.032				
3/3/2020			0.0018 (J)	0.046		
3/4/2020	0.0061 (J)					
8/11/2020				0.11		
8/12/2020		0.011	<0.005			
8/13/2020	0.0029 (J)					
8/17/2020					<0.005	
9/22/2020		0.04		0.23		
9/23/2020	0.0016 (J)		0.0028 (J)			
9/25/2020					<0.005	
1/12/2021						<0.005
3/2/2021		0.0081	<0.005	0.07		
3/3/2021	0.0025 (J)					
3/5/2021						0.0031 (J)
3/8/2021					0.0019 (J)	
9/10/2021	0.0022 (J)	0.0099		0.057		
9/13/2021			<0.005		<0.005	<0.005
1/21/2022					<0.005	
1/24/2022	<0.005	0.0048 (J)				
1/25/2022			<0.005			
1/26/2022				0.025		<0.005
Mean	0.005769	0.03077	0.004613	0.08729	0.00438	0.004525
Std. Dev.	0.00318	0.04124	0.002068	0.05853	0.001386	0.00095
Upper Lim.	0.006784	0.04184	0.0069	0.1254	0.005	0.005
Lower Lim.	0.0028	0.008956	0.0028	0.0492	0.0019	0.0031

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-108D	B-111D	B-56	B-77	B-82
9/18/2019					<0.005	
9/23/2019						<0.005
10/21/2019						0.0016 (J)
10/24/2019					<0.005	
8/13/2020					<0.005	
8/17/2020				0.011		<0.005
9/24/2020					<0.005	
9/28/2020				0.029		0.0021 (J)
12/9/2020	<0.005	<0.005	<0.005			
1/12/2021	0.0016 (J)		<0.005			
3/3/2021				0.013		
3/4/2021	0.0031 (J)	0.0016 (J)			0.0017 (J)	
3/5/2021			0.0022 (J)			
9/13/2021				0.011		
9/14/2021	<0.005	<0.005	<0.005		<0.005	<0.005
1/20/2022					<0.005	
1/24/2022	<0.005	<0.005	<0.005			
1/25/2022						0.002 (J)
1/27/2022				0.0066		
Mean	0.00394	0.00415	0.00444	0.01412	0.004529	0.00345
Std. Dev.	0.001545	0.0017	0.001252	0.008641	0.001247	0.001706
Upper Lim.	0.005	0.005	0.005	0.02912	0.005	0.005
Lower Lim.	0.0016	0.0016	0.0022	0.003536	0.0017	0.0016

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88
10/21/2019	0.0082 (J)	
8/14/2020	0.015	
8/17/2020		0.0017 (J)
9/25/2020	0.019	0.0033 (J)
3/4/2021	0.024	
3/5/2021		0.0033 (J)
9/13/2021		0.0021 (J)
9/16/2021	0.025	
1/21/2022	0.027	
1/27/2022		<0.005
Mean	0.0197	0.00308
Std. Dev.	0.007137	0.001289
Upper Lim.	0.0295	0.003306
Lower Lim.	0.009895	0.001194

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22
8/31/2016	0.0004 (J)					
9/1/2016		<0.001		0.0005 (J)		
9/2/2016					<0.001	<0.001
9/7/2016			<0.001			
12/6/2016	0.0004 (J)					
12/7/2016		<0.001		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.001			<0.001
3/29/2017	0.0006 (J)	8E-05 (J)		0.0004 (J)	0.0006 (J)	6E-05 (J)
3/30/2017			0.0002 (J)			
7/12/2017	0.0005 (J)	9E-05 (J)	0.0002 (J)	0.0005 (J)	0.0006 (J)	
7/13/2017						7E-05 (J)
10/24/2017	0.0004 (J)					
10/25/2017		9E-05 (J)	0.0002 (J)	0.0004 (J)	0.0005 (J)	7E-05 (J)
2/27/2018	<0.001	<0.001				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.001	<0.001
7/11/2018		<0.001	0.00017 (J)	0.0005 (J)	<0.001	
7/12/2018						<0.001
11/6/2018	<0.001 (J)					
11/7/2018		<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001
8/27/2019	0.00036 (J)	8.9E-05 (J)	0.00018 (J)			
8/28/2019				0.00053 (J)		
8/29/2019					0.00084 (J)	6.4E-05 (J)
9/17/2019		9.7E-05 (J)				
10/15/2019	0.00039 (J)	9.1E-05 (J)				
10/16/2019				0.00053 (J)		
10/17/2019					0.00062 (J)	
10/18/2019			0.00014 (J)			<0.001
3/2/2020		0.00013 (J)				
3/3/2020	0.00042 (J)			0.0006 (J)		7E-05 (J)
3/4/2020			0.00019 (J)		0.0023 (J)	
8/11/2020	0.00037 (J)	<0.001		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.001
9/22/2020		<0.001		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.001
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.001	0.00017 (J)			<0.001
3/4/2021	0.00042 (J)					
9/9/2021		<0.001		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.001
9/13/2021			<0.001			
1/20/2022						<0.001
1/21/2022					<0.001	
1/24/2022			<0.001			
1/25/2022		<0.001		0.00057 (J)		
1/26/2022	0.00033 (J)					
Mean	0.00048	0.0006275	0.0004356	0.0005456	0.0009456	0.0007084
Std. Dev.	0.0002241	0.0004591	0.0003933	0.0001339	0.0004827	0.0004467
Upper Lim.	0.0006	0.001	0.001	0.00059	0.0009559	0.001
Lower Lim.	0.00034	9E-05	0.00017	0.00049	0.0005248	7E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					<0.001	
9/1/2016			0.0002 (J)	<0.001		
9/7/2016		<0.001				
12/6/2016					<0.001	<0.001
12/8/2016		<0.001	<0.001	<0.001		
3/28/2017	<0.001				0.0002 (J)	
3/29/2017						0.0002 (J)
3/30/2017				9E-05 (J)		
3/31/2017		9E-05 (J)	0.0002 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.001					0.0003 (J)
10/25/2017		9E-05 (J)			<0.001	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.001				<0.001	0.00033 (J)
2/28/2018		<0.001				
3/1/2018			0.00032 (J)			
3/2/2018				<0.001		
7/11/2018		<0.001				
7/12/2018			0.00031 (J)	<0.001		
11/6/2018	<0.001				<0.001	<0.001 (J)
11/7/2018		<0.001	<0.001 (J)	<0.001		
8/27/2019	<0.001				<0.001	
8/28/2019		6.9E-05 (J)				0.00022 (J)
8/29/2019			0.00025 (J)	7.8E-05 (J)		
10/15/2019	7.3E-05 (J)					
10/16/2019					7.8E-05 (J)	0.00025 (J)
10/17/2019		<0.001	0.00025 (J)			
10/18/2019				<0.001		
3/2/2020	<0.001				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.001	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020		<0.001		<0.001		
9/22/2020	<0.001	<0.001			<0.001	
9/23/2020			0.00026 (J)	<0.001		0.0002 (J)
3/1/2021	<0.001					
3/2/2021					<0.001	0.00019 (J)
3/3/2021		<0.001	0.00023 (J)	<0.001		
9/10/2021	<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021		<0.001				0.00019 (J)
1/20/2022		<0.001				
1/21/2022			0.00028 (J)			
1/24/2022	<0.001			<0.001	<0.001	
1/25/2022						0.00019 (J)
Mean	0.0009382	0.0007712	0.0003469	0.0007129	0.0008227	0.0003753
Std. Dev.	0.0002394	0.0004093	0.0002599	0.0004399	0.0003682	0.0003274
Upper Lim.	0.001	0.001	0.00036	0.001	0.001	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

Confidence Interval

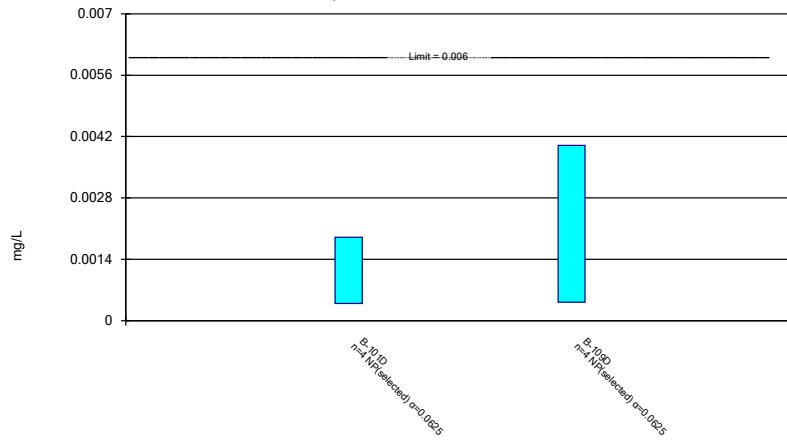
Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-56	B-82	B-83	B-88
8/30/2016	<0.001				
12/6/2016	0.0006 (J)				
3/28/2017	0.0007 (J)				
7/11/2017	0.0007 (J)				
10/24/2017	0.0006 (J)				
2/27/2018	0.00038 (J)				
7/11/2018	<0.001				
11/6/2018	<0.001				
8/27/2019	0.00053 (J)				
9/23/2019			9.9E-05 (J)		
10/17/2019	0.00076 (J)				
10/21/2019			0.00011 (J)	7.2E-05 (J)	
3/3/2020	0.00044 (J)				
8/11/2020	<0.001				
8/14/2020				<0.001	
8/17/2020		0.00016 (J)	<0.001		<0.001
9/22/2020	0.00043 (J)				
9/25/2020				<0.001	<0.001
9/28/2020		0.00023 (J)	<0.001		
3/2/2021	<0.001				
3/3/2021		0.00026 (J)			
3/4/2021				<0.001	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.001
9/14/2021			<0.001		
9/16/2021				<0.001	
1/21/2022				<0.001	
1/25/2022			<0.001		
1/26/2022	<0.001				
1/27/2022		0.00032 (J)			<0.001
Mean	0.0007213	0.000242	0.0007015	0.0008453	0.00084
Std. Dev.	0.0002474	5.762E-05	0.0004624	0.0003789	0.0003578
Upper Lim.	0.001	0.0003386	0.001	0.001	0.001
Lower Lim.	0.00043	0.0001454	9.9E-05	7.2E-05	0.0002

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

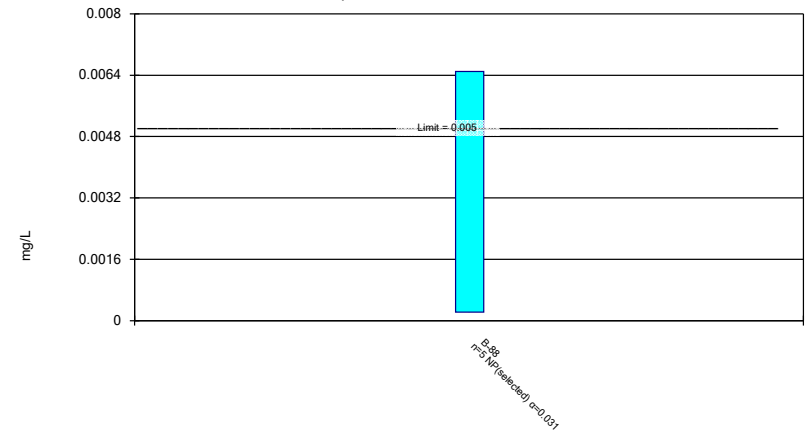


Normality testing disabled.

Constituent: Antimony Analysis Run 4/13/2022 4:33 PM View: AP 234 Confidence Intervals Nonparametri
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

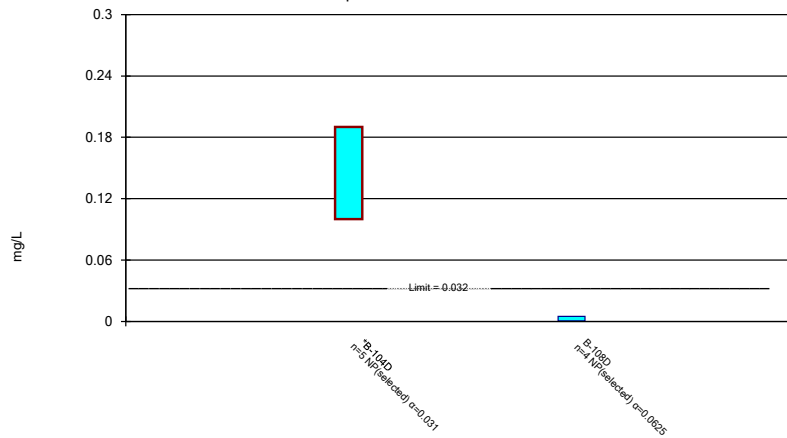


Normality testing disabled.

Constituent: Cadmium Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametri
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance limit is exceeded.*

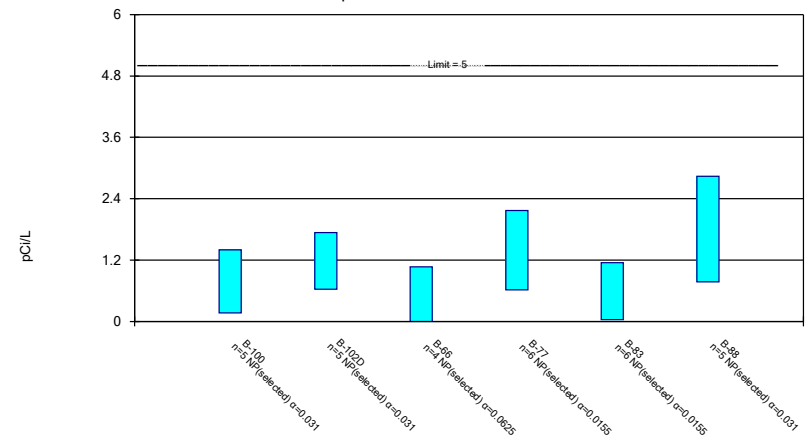


Normality testing disabled.

Constituent: Cobalt Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

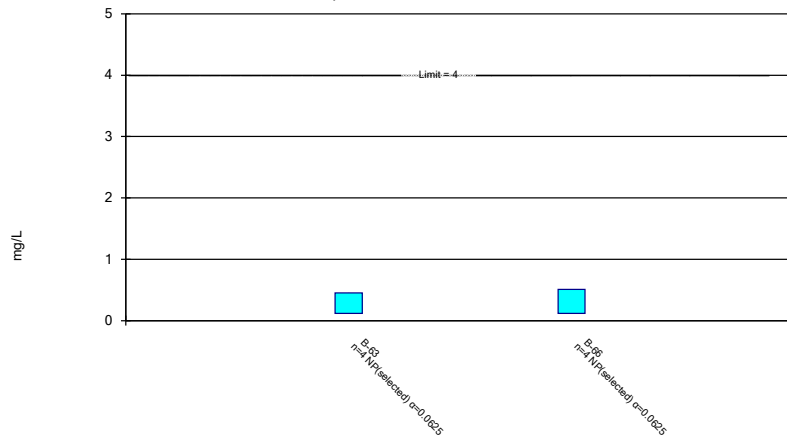


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

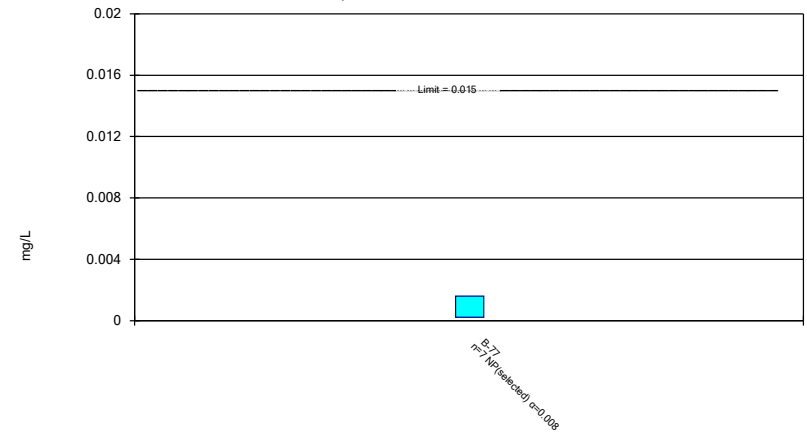


Normality testing disabled.

Constituent: Fluoride, total Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonpara Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

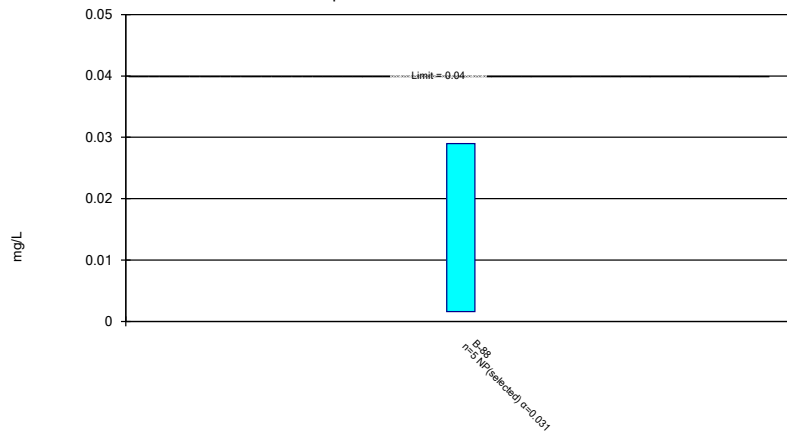


Normality testing disabled.

Constituent: Lead Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

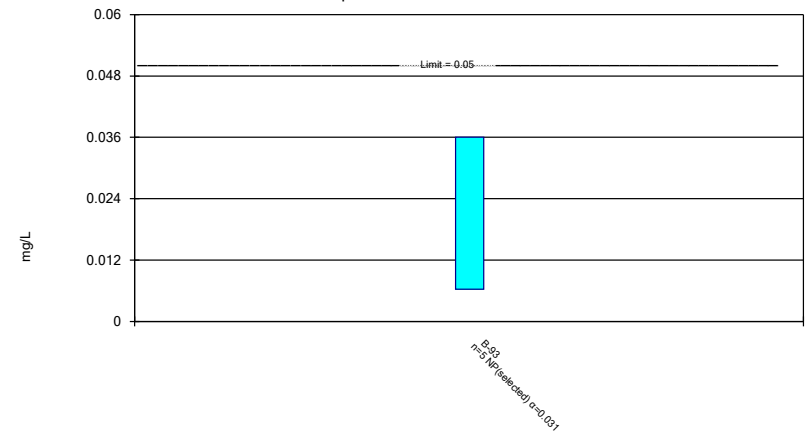


Normality testing disabled.

Constituent: Lithium Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

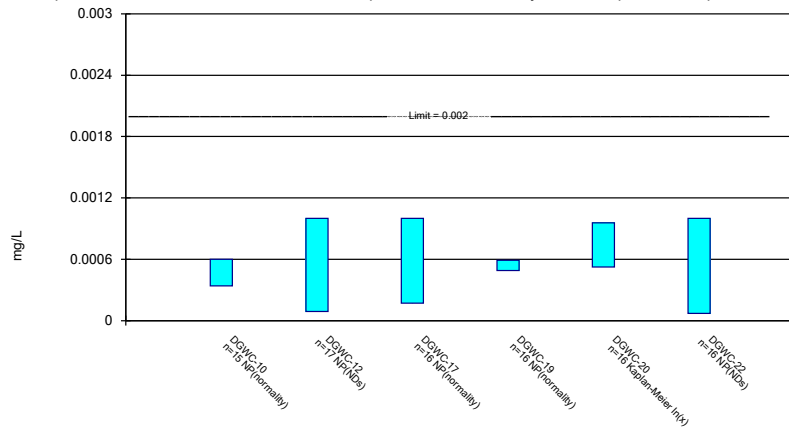


Normality testing disabled.

Constituent: Selenium Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametri Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

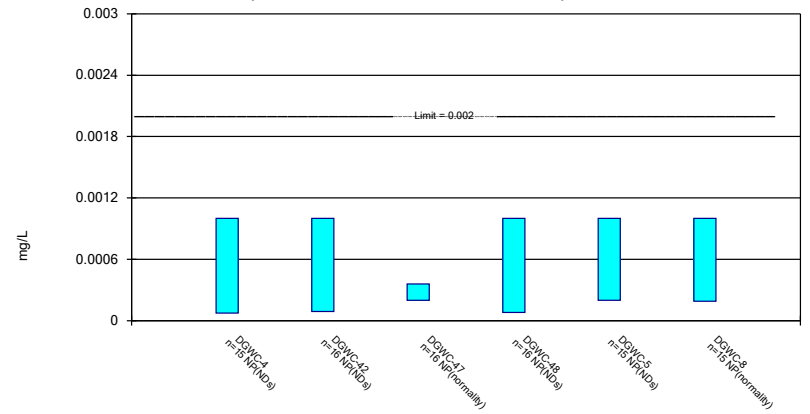
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

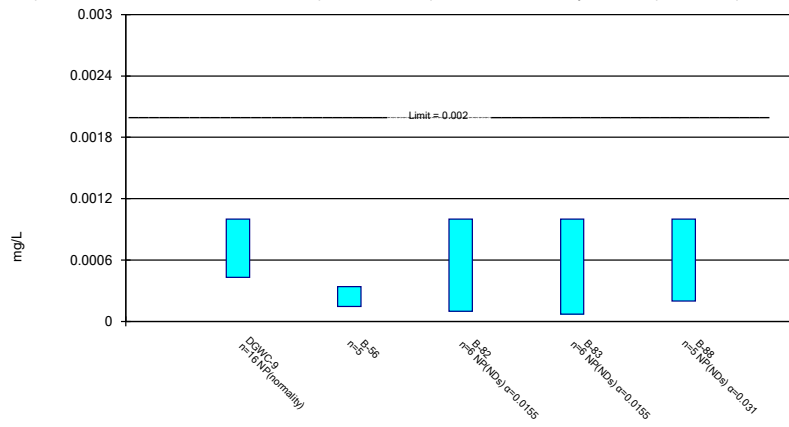
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

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: Thallium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-109D
1/12/2021	0.00039 (J)	
1/13/2021		0.00042 (J)
3/5/2021	0.0019 (J)	
3/8/2021		0.00084 (J)
9/10/2021		0.004
9/13/2021	0.001 (J)	
1/20/2022		<0.003
1/26/2022	0.00082 (J)	
Mean	0.001028	0.00169
Std. Dev.	0.0006355	0.001603
Upper Lim.	0.0019	0.004
Lower Lim.	0.00039	0.00042

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88
8/17/2020	0.0018 (J)
9/25/2020	0.00022 (J)
3/5/2021	0.0065
9/13/2021	0.0013
1/27/2022	0.0036
Mean	0.002684
Std. Dev.	0.002458
Upper Lim.	0.0065
Lower Lim.	0.00022

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-108D
12/9/2020	0.17	0.0048 (J)
1/12/2021	0.19	
3/4/2021	0.19	0.0017 (J)
9/14/2021	0.1	0.0017 (J)
1/24/2022	0.1	0.00061 (J)
Mean	0.15	0.002203
Std. Dev.	0.04637	0.001806
Upper Lim.	0.19	0.0048
Lower Lim.	0.1	0.00061

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-66	B-77	B-83	B-88
1/30/2019			0.975 (U)			
10/21/2019			1.07 (U)		0.792 (U)	
10/24/2019				1.87		
8/13/2020				2.17		
8/14/2020					0.95 (U)	
8/17/2020	1.4 (U)					2.47
9/24/2020				0.761 (U)		
9/25/2020	0.799 (U)				0.0359 (U)	0.925 (U)
12/17/2020		1.22 (U)				
1/11/2021		0.635 (U)				
3/4/2021		0.789 (U)		2.16	1.15 (U)	
3/5/2021						2.84
3/8/2021	0.168 (U)					
9/10/2021		1.74				
9/13/2021	0.774 (U)					0.771 (U)
9/14/2021			0.421 (U)	0.617 (U)		
9/16/2021					0.442 (U)	
1/20/2022				0.92		
1/21/2022	0.769 (U)				0.549 (U)	
1/25/2022			0 (U)			
1/27/2022		0.628 (U)				1.18
Mean	0.782	1.002	0.6165	1.416	0.6532	1.637
Std. Dev.	0.4357	0.4775	0.5008	0.7269	0.3977	0.9496
Upper Lim.	1.4	1.74	1.07	2.17	1.15	2.84
Lower Lim.	0.168	0.628	0	0.617	0.0359	0.771

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66
1/28/2019	0.45	
1/30/2019		0.51
10/21/2019		0.3 (J)
10/22/2019	0.2 (J)	
9/14/2021	0.16	0.22
1/20/2022	0.12	
1/25/2022		0.12
Mean	0.2325	0.2875
Std. Dev.	0.1486	0.1656
Upper Lim.	0.45	0.51
Lower Lim.	0.12	0.12

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77
9/18/2019	0.00032 (J)
10/24/2019	<0.001
8/13/2020	0.0016 (J)
9/24/2020	0.00021 (J)
3/4/2021	0.00029 (J)
9/14/2021	<0.001
1/20/2022	<0.001
Mean	0.0007743
Std. Dev.	0.0005154
Upper Lim.	0.0016
Lower Lim.	0.00021

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

B-88

8/17/2020	0.006 (J)
9/25/2020	0.0016 (J)
3/5/2021	0.029 (J)
9/13/2021	0.0017 (J)
1/27/2022	0.0066 (J)
Mean	0.00898
Std. Dev.	0.01143
Upper Lim.	0.029
Lower Lim.	0.0016

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.018
9/28/2020	0.036
3/9/2021	0.0099 (J)
9/15/2021	0.0076
1/26/2022	0.0063
Mean	0.01556
Std. Dev.	0.0123
Upper Lim.	0.036
Lower Lim.	0.0063

FIGURE I.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

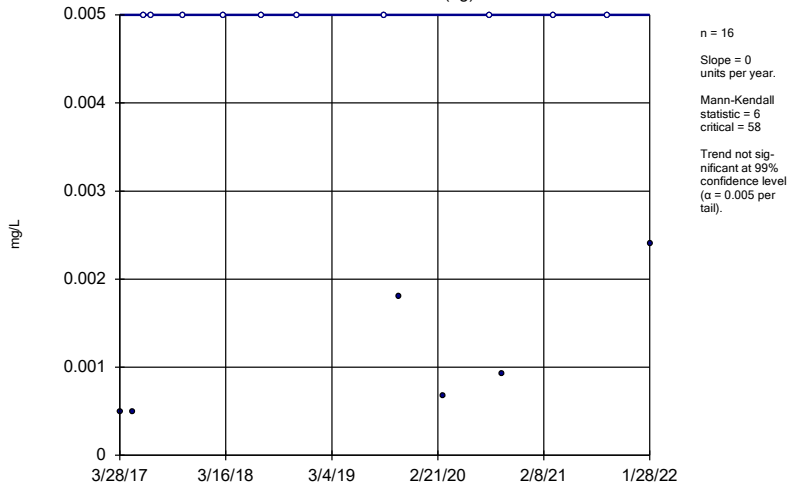
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	16	62.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-17	-58	No	16	87.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	23	53	No	15	80	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.0005672	5	58	No	16	6.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001569	-32	-58	No	16	31.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006697	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001058	-57	-58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004175	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001047	23	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.002989	-2	-8	No	4	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.003614	9	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-70A (bg)	0	5	58	No	16	50	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	20	53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-19	-0.0002359	-17	-58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	35	58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-104D	-0.07465	-4	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.006064	7	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003301	-8	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002296	-6	-14	No	6	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.04334	12	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-3.972	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-109D	3.172	2	8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.00009951	-11	-58	No	16	6.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	18	58	No	16	81.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001223	-45	-53	No	15	20	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

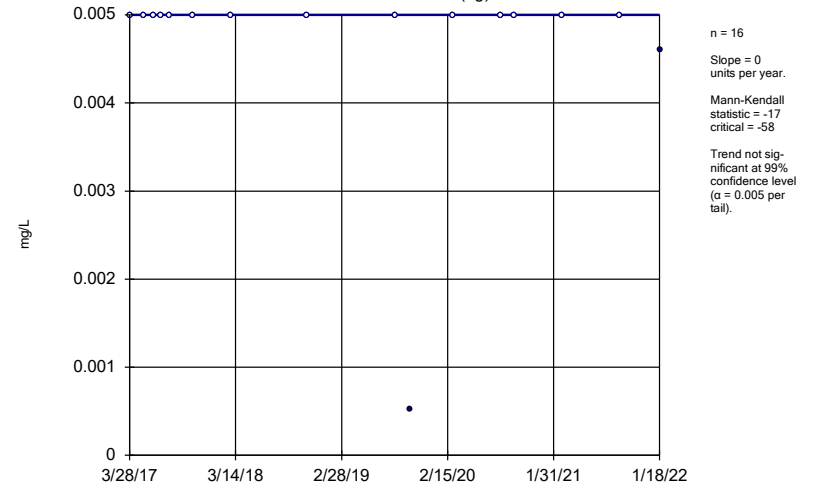
DGWA-53 (bg)



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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

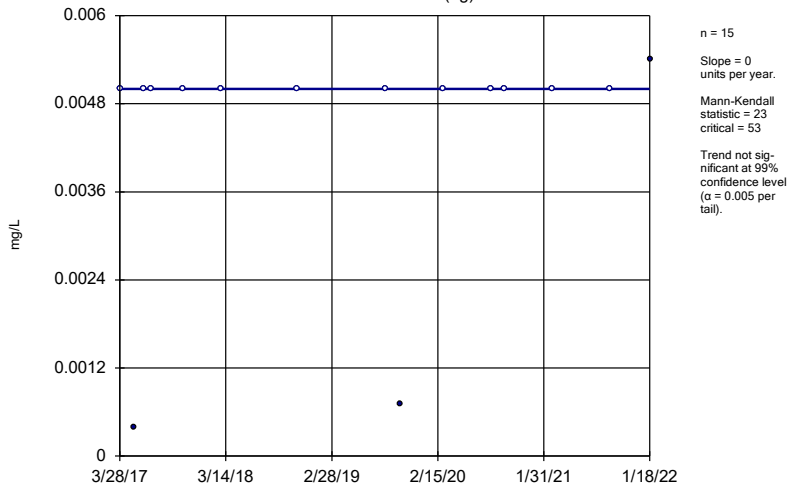
DGWA-70A (bg)



Constituent: Arsenic Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

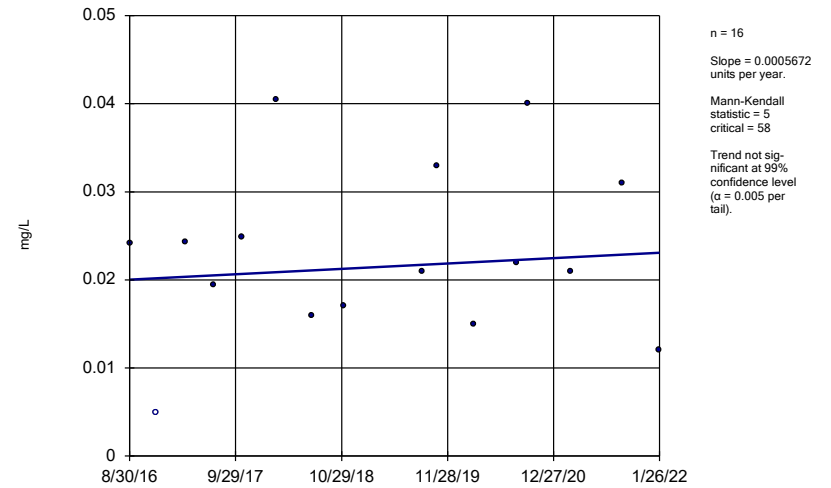
DGWA-71 (bg)



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Plant McDonough Client: Southern Company Data: McDonough AP

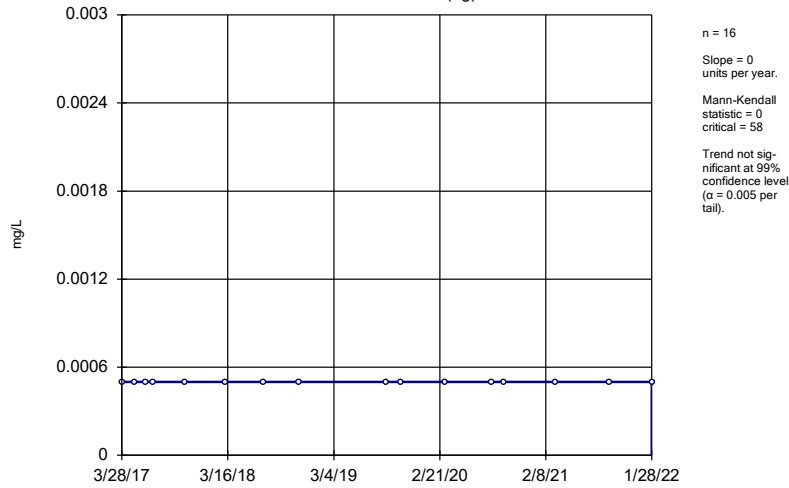
Sen's Slope Estimator

DGWC-9



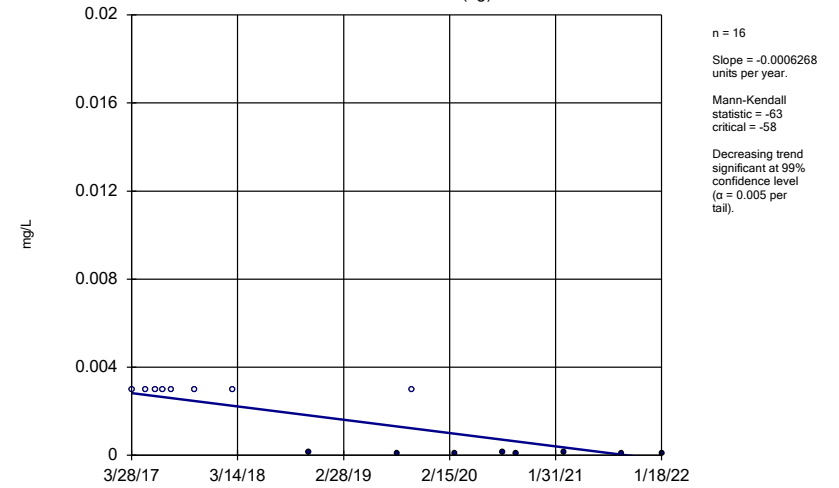
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



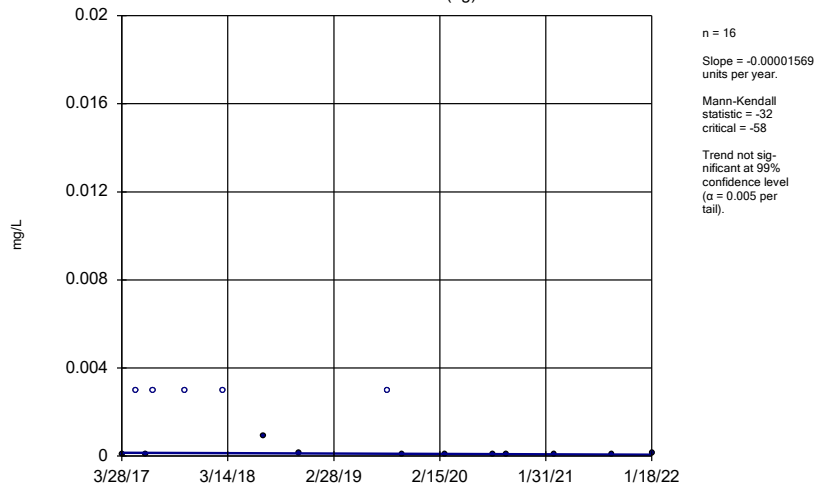
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



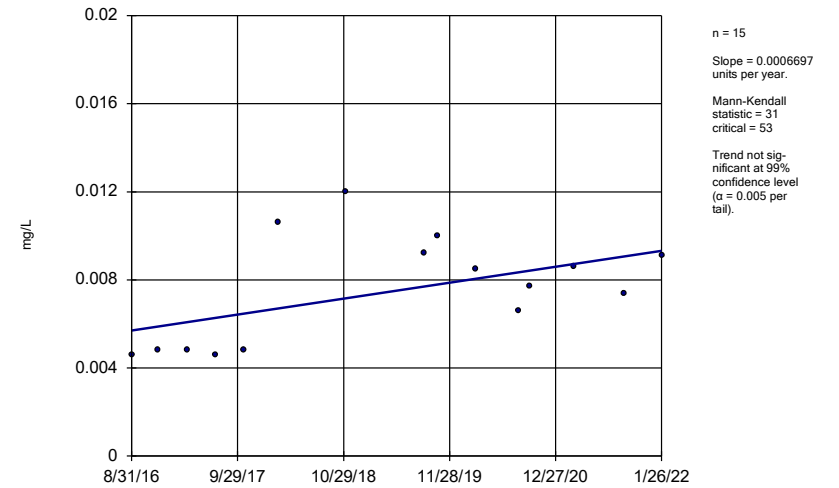
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



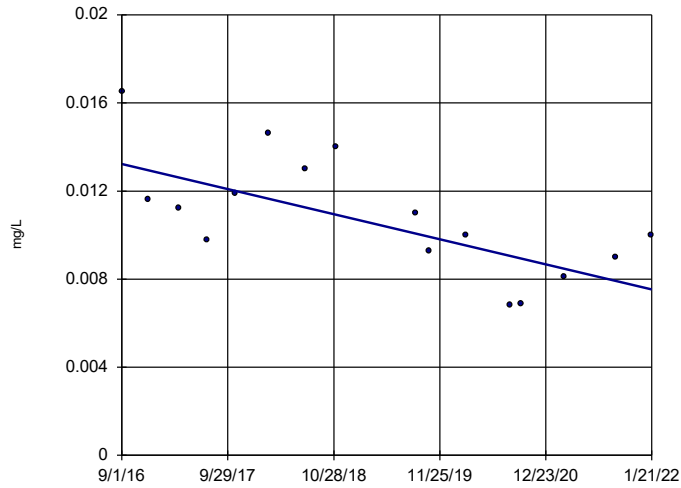
Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

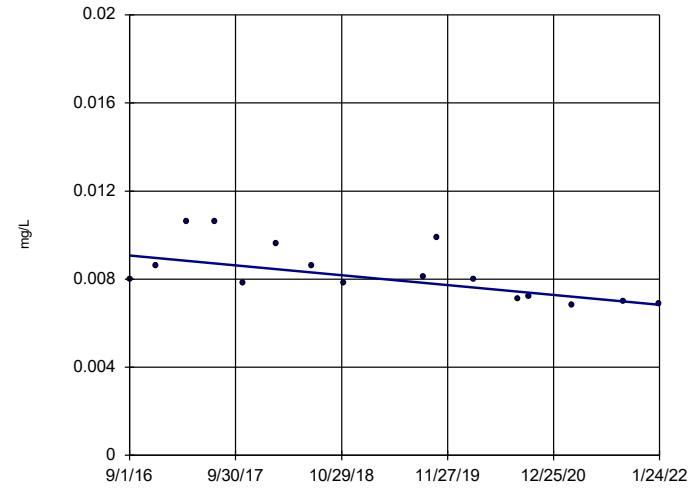
Sen's Slope Estimator DGWC-47



n = 16
 Slope = -0.001058
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

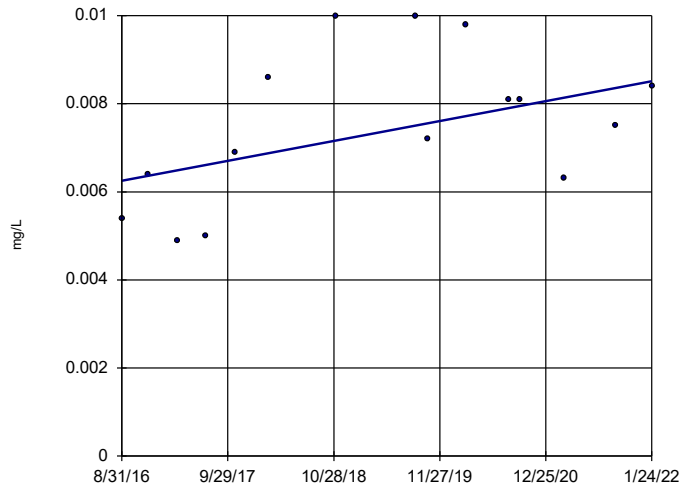
Sen's Slope Estimator DGWC-48



n = 16
 Slope = -0.0004126
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

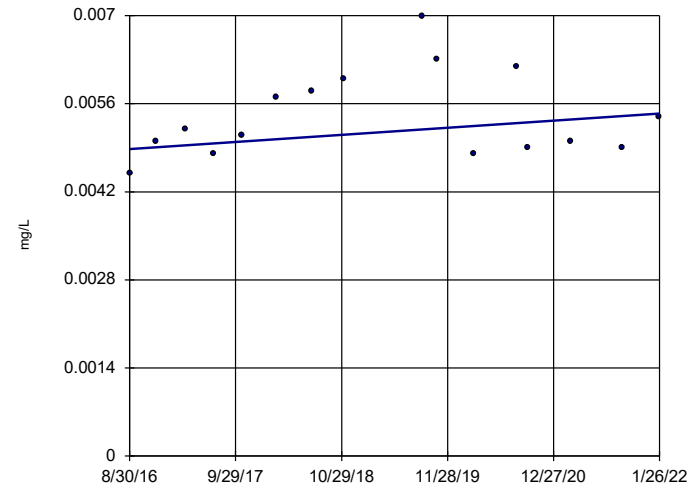
Sen's Slope Estimator DGWC-5



n = 15
 Slope = 0.0004175
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

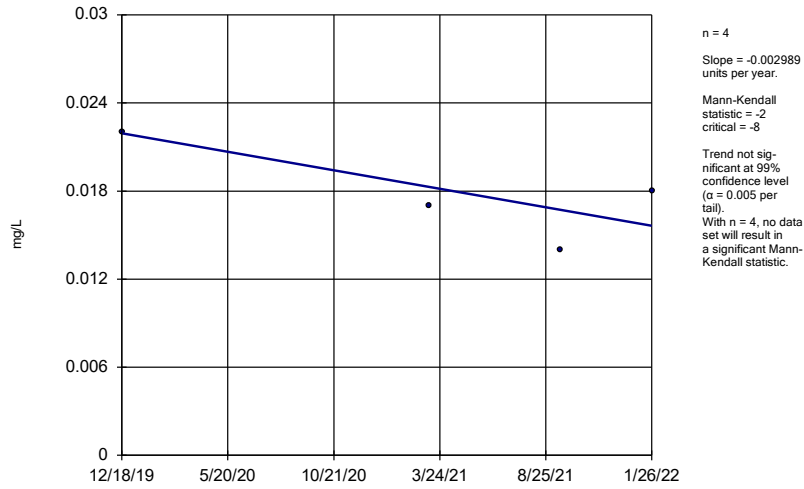
Sen's Slope Estimator DGWC-9



n = 16
 Slope = 0.0001047
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

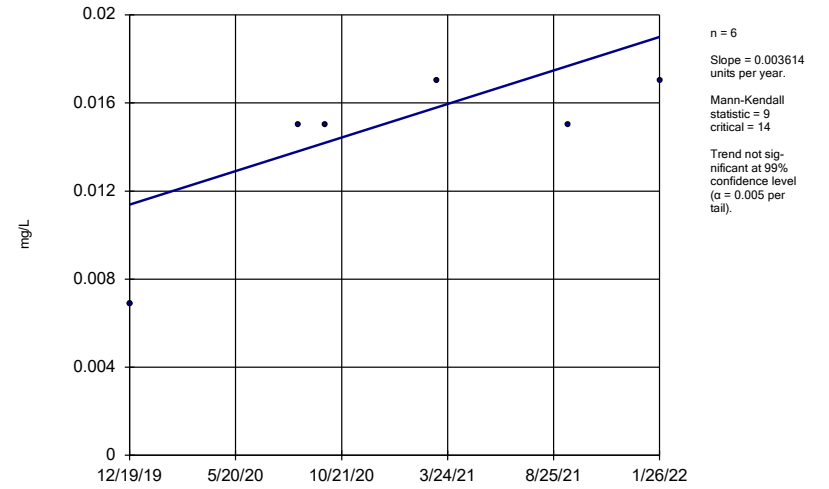
Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-92



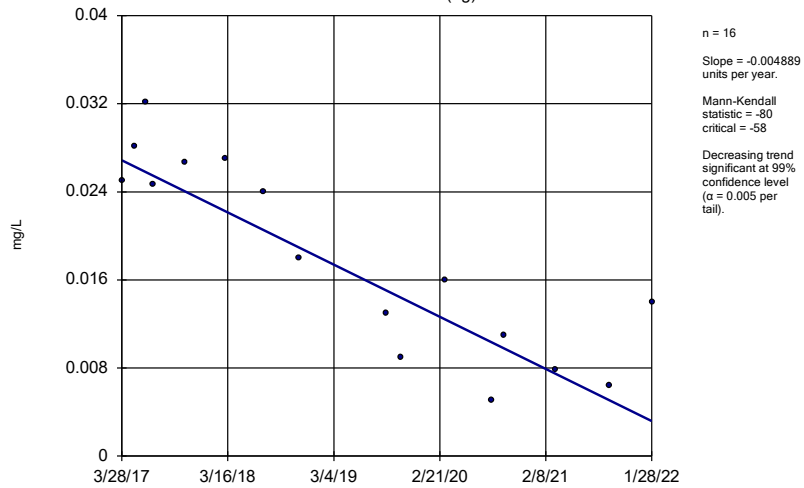
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-93



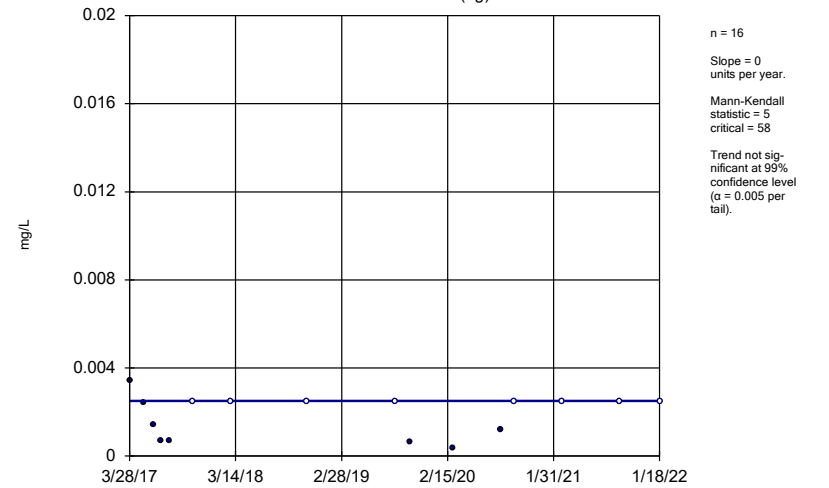
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



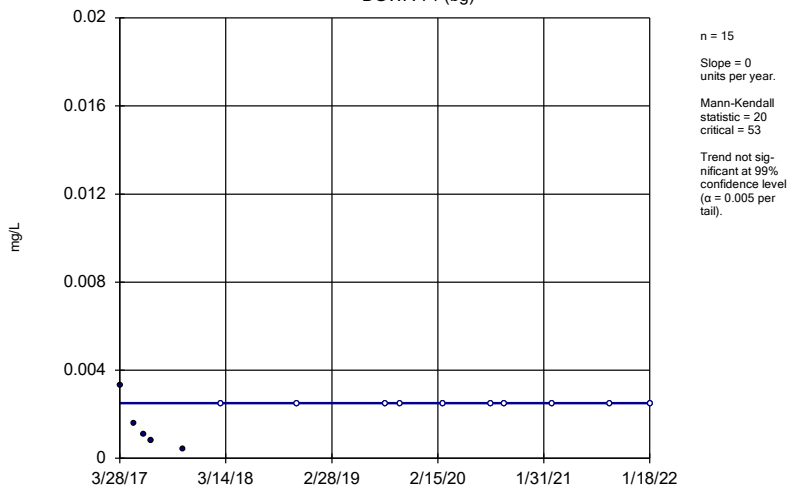
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



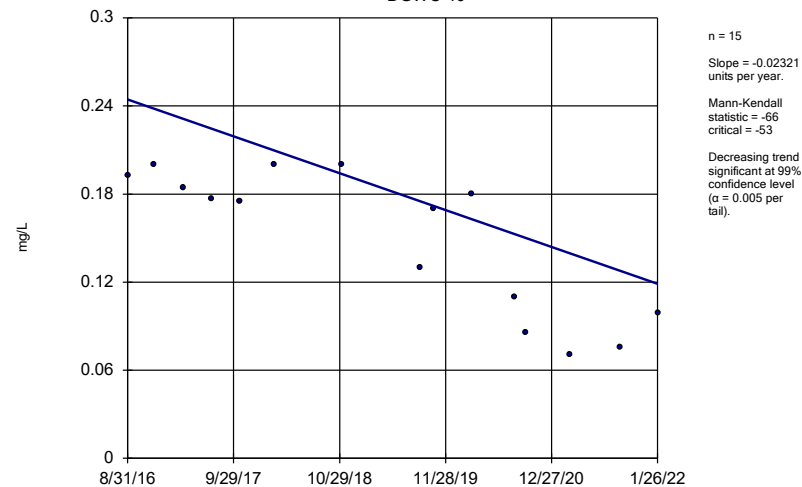
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



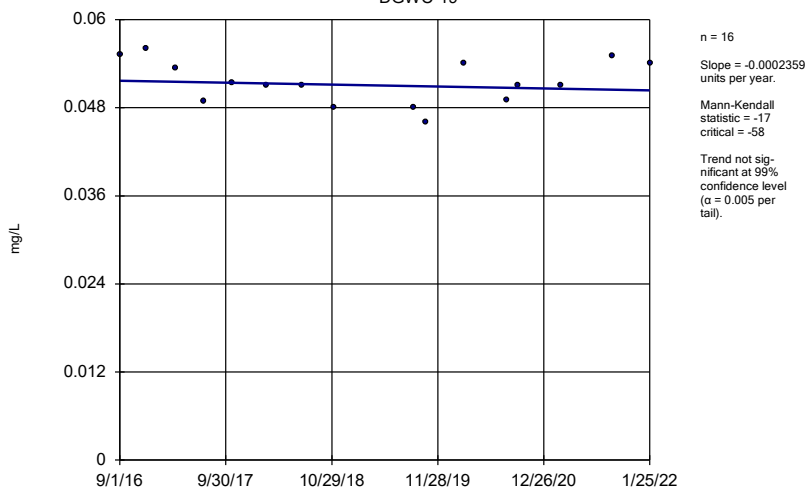
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



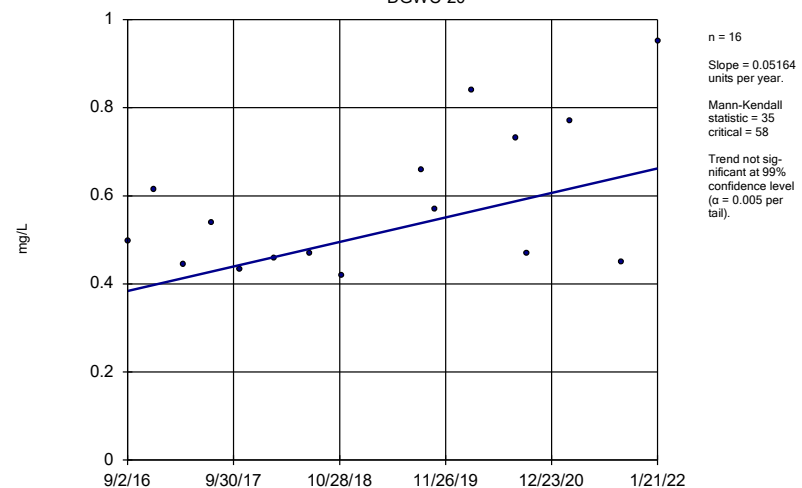
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-19



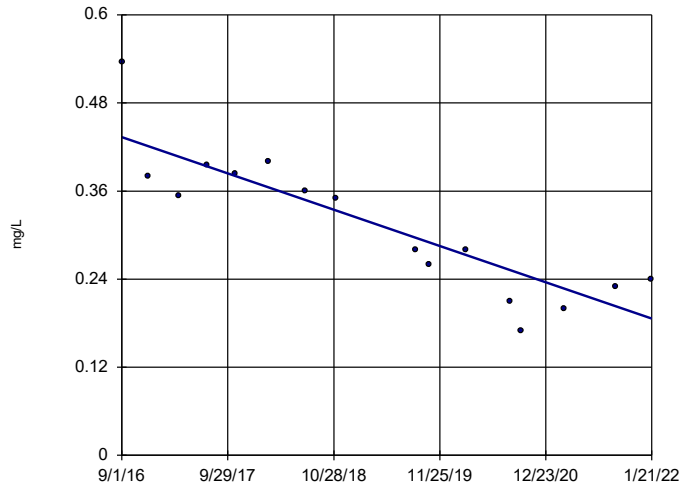
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-20



Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

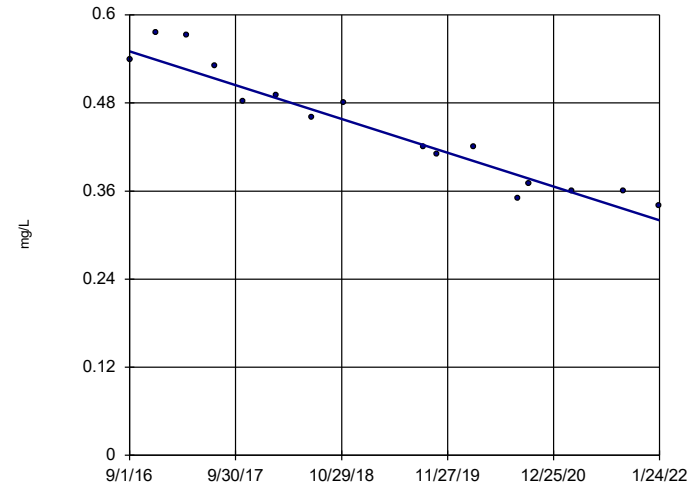
Sen's Slope Estimator
DGWC-47



n = 16
Slope = -0.04583
units per year.
Mann-Kendall
statistic = -83
critical = -58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

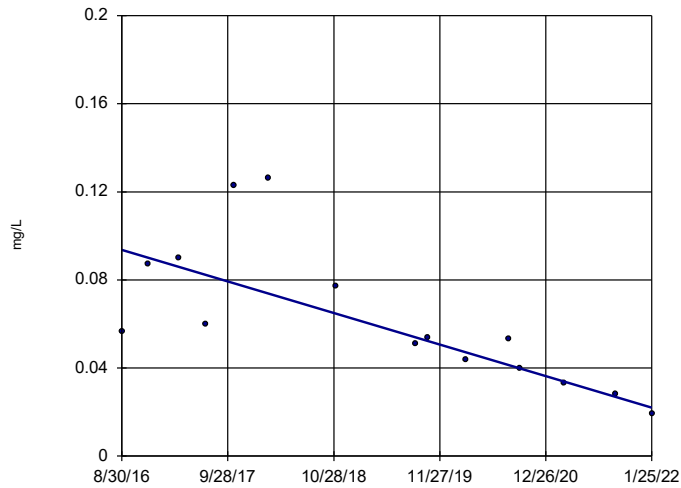
Sen's Slope Estimator
DGWC-48



n = 16
Slope = -0.04264
units per year.
Mann-Kendall
statistic = -102
critical = -58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

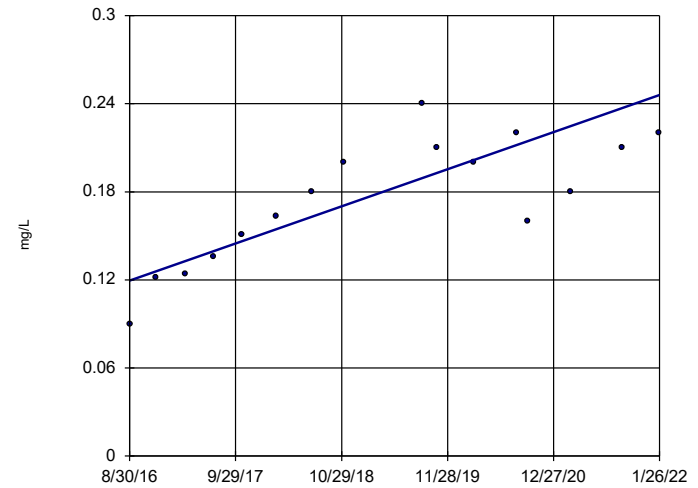
Sen's Slope Estimator
DGWC-8



n = 15
Slope = -0.01326
units per year.
Mann-Kendall
statistic = -69
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

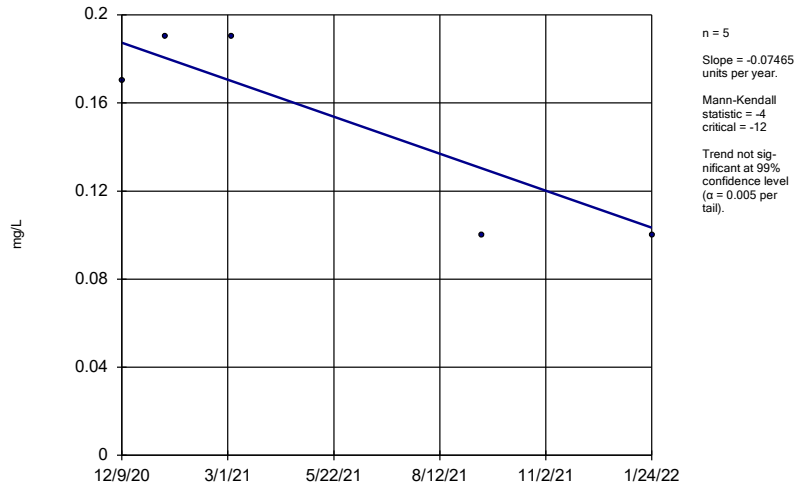
Sen's Slope Estimator
DGWC-9



n = 16
Slope = 0.02338
units per year.
Mann-Kendall
statistic = 78
critical = 58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

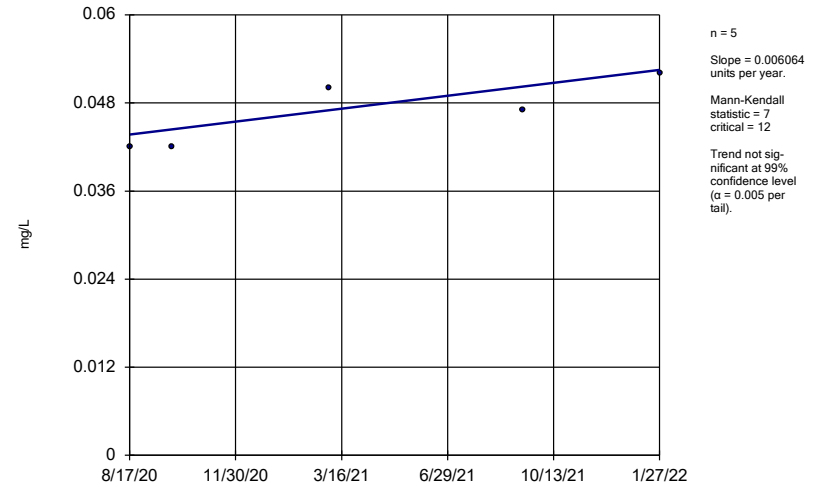
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-104D



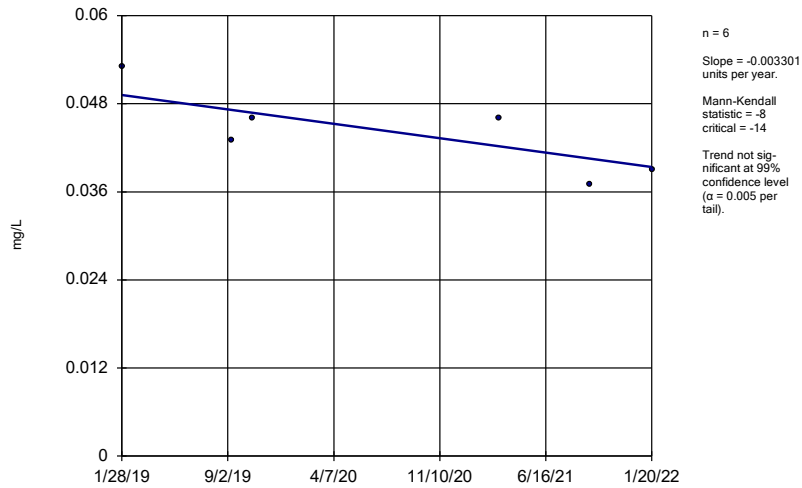
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-56



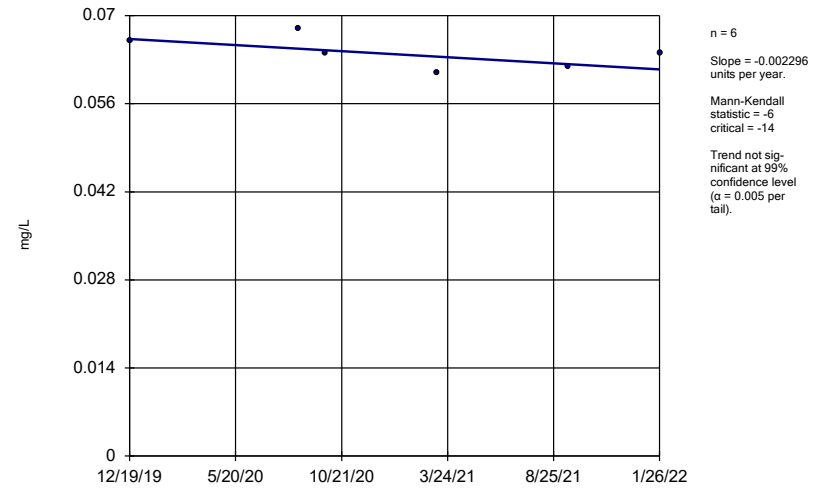
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-63



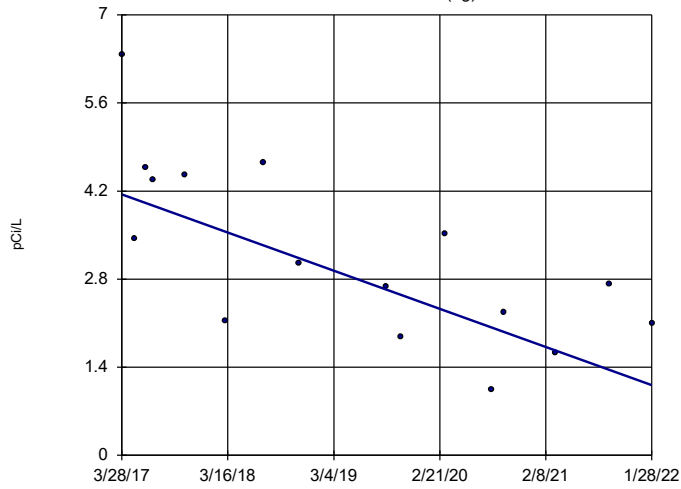
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-93



Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

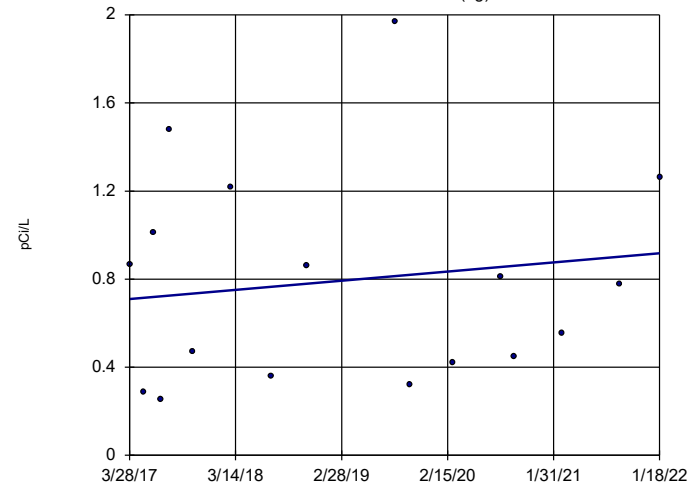
Sen's Slope Estimator DGWA-53 (bg)



n = 16
 Slope = -0.6256
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP

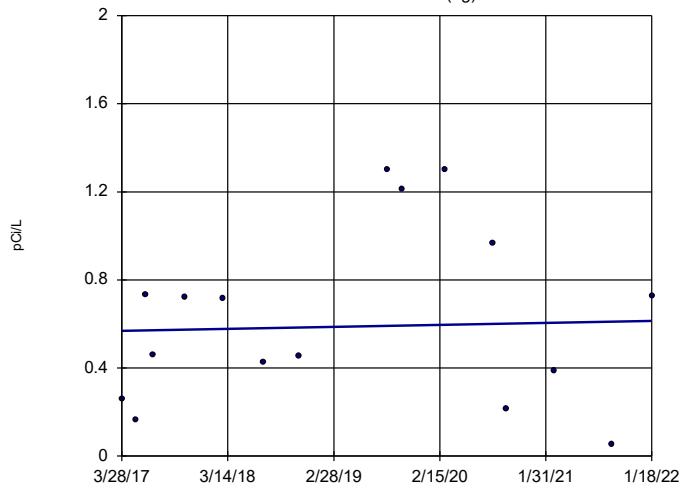
Sen's Slope Estimator DGWA-70A (bg)



n = 17
 Slope = 0.04334
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP

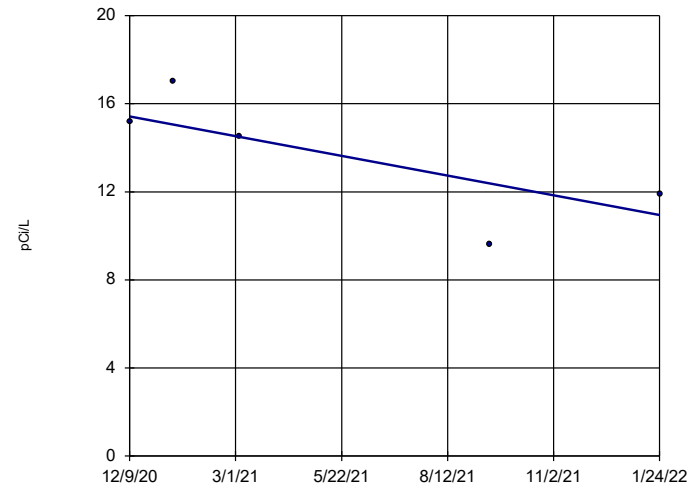
Sen's Slope Estimator DGWA-71 (bg)



n = 16
 Slope = 0.0095
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator B-104D

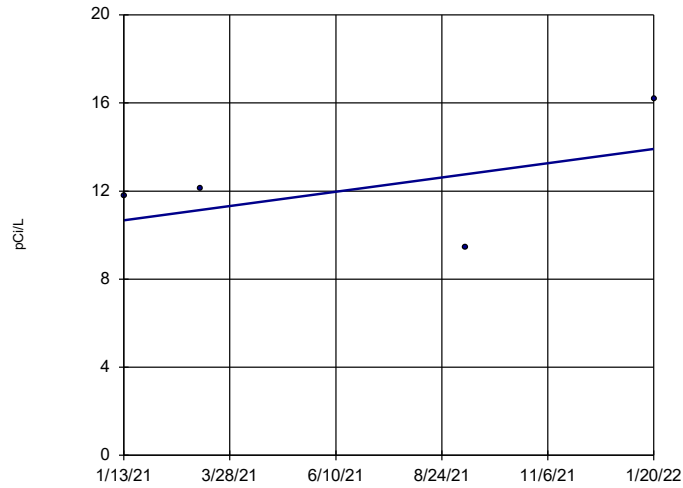


n = 5
 Slope = -3.972
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -12
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-109D

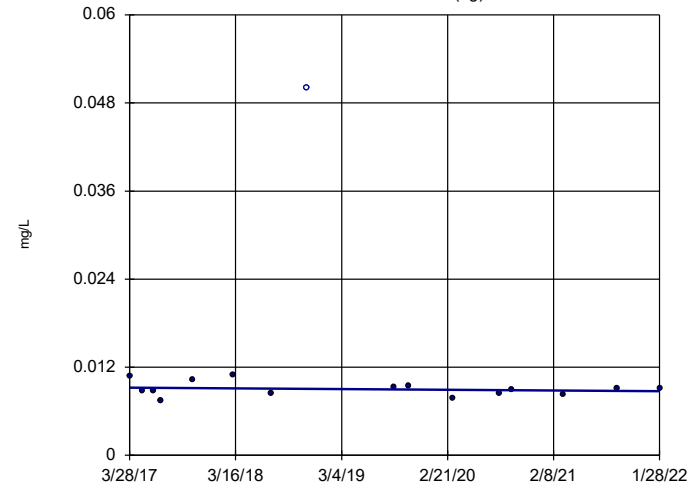


n = 4
 Slope = 3.172 units per year.
 Mann-Kendall statistic = 2
 critical = 8
 Trend not significant at 99% confidence level (α = 0.005 per tail).
 With n = 4, no data set will result in a significant Mann-Kendall statistic.

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)

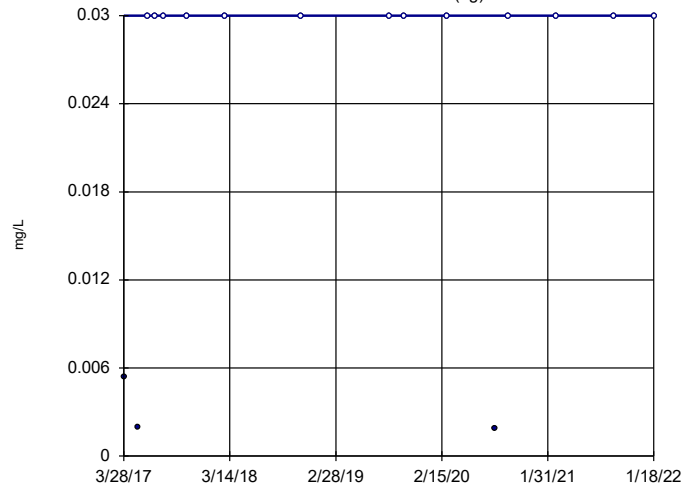


n = 16
 Slope = -0.00009951 units per year.
 Mann-Kendall statistic = -11
 critical = -58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-70A (bg)

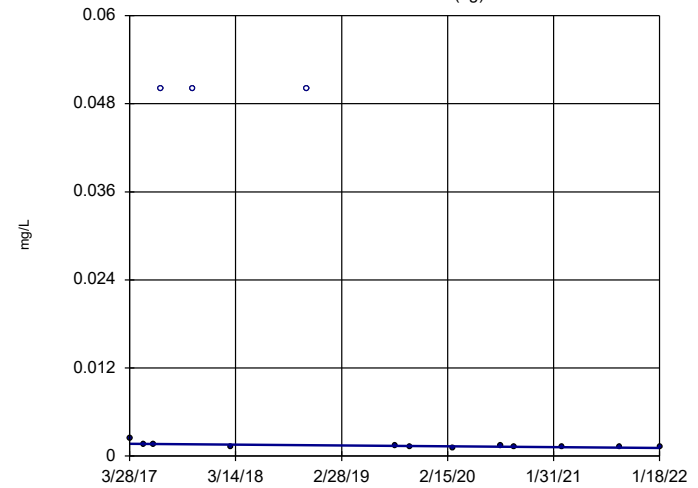


n = 16
 Slope = 0 units per year.
 Mann-Kendall statistic = 18
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

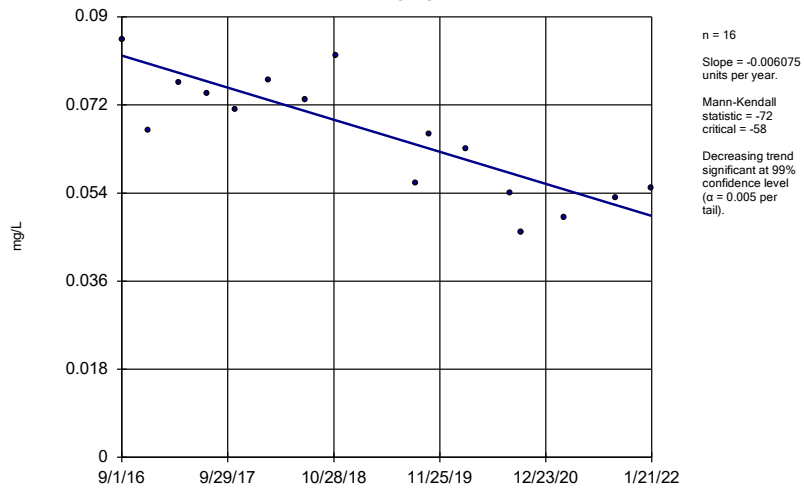
DGWA-71 (bg)



n = 15
 Slope = -0.0001223 units per year.
 Mann-Kendall statistic = -45
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

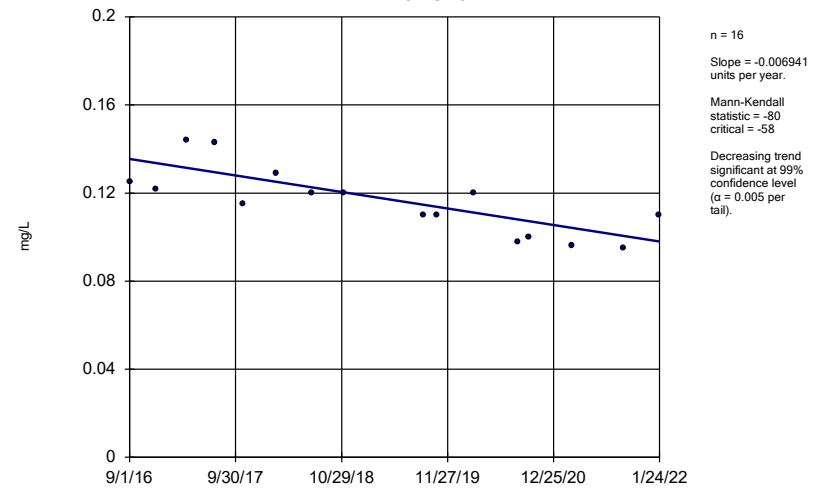
Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-47



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-48



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX F

Semi-Annual Remedy Selection and Design Progress Report

REPORT

Semi-Annual Remedy Selection and Design Progress Report

Plant McDonough-Atkinson Ash Pond 2 and 3/4

Submitted to:

Georgia Power Company

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Submitted by:

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July 29, 2022



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Certification

This *Semi-Annual Remedy Selection and Design Progress Report, Georgia Power Company – Plant McDonough-Atkinson, Ash Pond 2 and Ash Pond 3/4*, 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, and 40 CFR Part 258.50(g).

Golder Associates USA Inc.



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Georgia Licensed Professional Engineer No. 047845

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; US EPA, 2015a), Golder Associates USA Inc. a member of WSP (Golder) has prepared this *Semi-Annual Remedy Selection and Design Progress Report Plant McDonough-Atkinson* (July 2022; Semi-Annual Progress Report) for Georgia Power the Company (Georgia Power) Plant McDonough-Atkinson Ash Pond 2, Ash Pond 3 and Ash Pond 4 (AP-2 and 3/4 or Site, or AP-2, AP-3, AP-4, respectively). 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 report documents activities conducted in support of the previously submitted *Assessment of Corrective Measures (ACM) Report – Plant McDonough-Atkinson Ash Pond 2 and AP-3/4* (ACM Report; Golder, 2020).

Plant McDonough, formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. A Site location map is included as Figure 1.

Pursuant to § 257.96, Georgia Power initiated an ACM for AP-2 and 3/4 on July 9, 2020, to address the occurrences of arsenic, beryllium, cobalt and lithium in groundwater at statistically significant levels (SSLs). Subsequently, Georgia Power completed an ACM Report on December 4, 2020, and posted it to the CCR compliance website in January 2021. Since the submission of the ACM Report, selenium was identified as an SSL on February 26, 2021, at well DGWC-9 and radium was identified as an SSL at wells B-104D and B-109D on February 28, 2022. An Alternate Source Demonstration (ASD) for the occurrences of radium has been submitted to GA EPD.

The purpose of the ACM Report (and subsequent semiannual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures. Once potential corrective measures are identified, they are further evaluated using the criteria outlined in § 257.96(c) and Rule 391-3-4-.10(6)(a). The selected corrective measure must meet the additional protection criteria outlined in § 257.97(b) and corresponding Rule 391-3-4-.10(6)(a). Pursuant to § 257.97(a) and Rule 391-3-4-.10(6)(a), semiannual progress reports have been regularly submitted to document the efforts of evaluating and progressing toward selecting a groundwater corrective measure.

In addition to the assessment monitoring program at the Site, Georgia Power conducted a human health and ecological risk evaluation to evaluate constituents present at SSLs in groundwater (i.e., arsenic, beryllium, cobalt, and lithium) at AP-2 and 3/4 (Wood, 2020). The evaluation provides one of many lines of evidence that will be evaluated and factored into the remedy selection process. Based on this risk evaluation, concentrations of arsenic, beryllium, cobalt and lithium detected in groundwater at AP-2 and 3/4 between August 2016 and March 2020 are not expected to pose a risk to human health or the environment (Wood, 2020). Arsenic, beryllium, cobalt and lithium data collected since March 2020 are consistent with the data used in the risk evaluation; therefore, the conclusions of the *2020 Risk Evaluation Report* are supported by current conditions. The risk evaluation will be updated to include selenium and radium (as necessary), and the results will be submitted with the final Remedy Selection Report.

1.1 AP-2 AND 3/4 CLOSURE ACTIVITIES

At AP-2, closure by removal of ash was completed in September 2016. Following submittal of the Closure Permit Application to GA EPD in November 2018, additional verification methods were employed due to the amount of time that elapsed between the completion of CCR removal and the preparation to backfill AP-2 following removal of temporary minor stockpiles. As such, the removal verification process was repeated in 2019 ahead of proposed backfilling activities, with supplemental removal in 2019. Closure procedures included excavating all visible CCR, over excavating into the subgrade soils, and placement of topsoil and seeding for vegetative cover. A closure certification report was submitted to GA EPD on March 30, 2020, and receipt acknowledged on October 14, 2020. AP-3 and adjacent AP-4 are currently being consolidated and closed in place as combined CCR Unit AP-3/4 in accordance with § 257.102(d), no longer receive CCR, and are in the process of obtaining a solid waste permit under the GA EPD Rules for Solid Waste Management 391-3-4-.10(6).

At AP-3/4, closure is nearly complete. CCR in the eastern portion of AP-4 has been relocated to the western portion of AP-4 as well as dry stacked on AP-3. During closure, AP-3 and AP-4 are being dewatered to facilitate consolidation and closure in place. CCR has been graded within the footprint of the impoundment to create a subgrade for the final cover system. Additional dewatering has commenced to facilitate lowering of the dam. This process is expected to result in groundwater flow returning to its original, pre-construction flow direction to the south.

The *Closure Plan* (Golder, 2019) was prepared in accordance with § 257, Subpart D and meets the requirements of § 257.102(b) and following complete closure, maintenance will be provided on the final cover system for the required post-closure care period so that the integrity and effectiveness of the final cover system is maintained.

1.2 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 possible. The following corrective measures are potentially feasible for use at AP-2 and 3/4:

- Geochemical Approaches (In-Situ Injection)
- Hydraulic Containment (Pump and Treat)
- Monitored Natural Attenuation (MNA)
- In-Situ Solidification/Stabilization (ISS)
- Permeable Reactive Barrier (PRB)
- Phytoremediation (Phyto)
- Subsurface Vertical Barrier Wall (SVBW).

An evaluation of remedial technologies is presented in Table 1. As required by the CCR rule, this semi-annual progress report describes the progress made in selecting and designing a remedy, as well as to incorporate the SSLs of cobalt at B-56, B-63, B-93, and B-104D, as well as beryllium at B-92 and B-93.

The following remedial alternatives have been retained for further evaluation:

- **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 constituents present at SSLs including, arsenic, beryllium, cobalt, lithium and selenium. Under anaerobic conditions, arsenic 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 arsenic, beryllium, cobalt, selenium and to a lesser degree lithium 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 source area. Groundwater extraction wells are feasible to install and 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, mineral precipitation, or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. MNA is a suitable option at the Site for the following reasons: Concentrations of the target constituents showing SSLs are stable, decreasing, or are not increasing over time based on several years of monitoring data; Iso-concentration maps show the SSL constituents are well-defined and limited in extent; and dewatering and installation of closure-cover at the Site favors restoration of natural (pre-impoundment) groundwater flow.

The following remedial alternatives have been removed from consideration:

- **In-Situ Solidification Stabilization (ISS)** – AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. Ash remaining in place is unsaturated, and capped, with decreasing moisture and nearly zero infiltration rendering this remedial alternative unneeded. Other retained options are more effective in addressing groundwater corrective action.
- **Permeable Reactive Barrier (PRB)** - Other retained options are more suitable for corrective action rather than the installation of a PRB for the following reasons. A PRB can attenuate some CCR constituents at the Site, but this technology is prone to biofouling and excessive mineral precipitation, and subsequently reducing the effectiveness of the adsorption media over time. The lack of space between the unit boundary and the property line makes it a less suitable option at many areas downgradient of AP-2, and 3/4. Further, construction of a PRB is likely to impede or restrict restoration of natural groundwater flow across AP-3/4.
- **Phytoremediation (Phyto):** Other retained options are more suitable for corrective action rather than phytoremediation. In areas north and northeast of AP-3/4 limited space is available between the CCR unit

boundary and the property boundary. This combined with the presence of Site utilities makes this alternative unfeasible in this area. For areas south of AP-3, pH is the driver for the elevated cobalt concentrations. Phytoremediation is not a feasible alternative to address low pH conditions. For these reasons, phytoremediation has been removed from consideration.

- **Subsurface Vertical Barrier Wall (SVBW)** - AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. Ash remaining in place is unsaturated, and capped, with decreasing moisture and nearly zero infiltration making constructing a SVBW outside the perimeter of the AP-2 and 3/4 boundary unnecessary.

1.3 Adaptive Site Management

Georgia Power proactively initiated adaptive Site management as outlined in the ACM Report (Golder, 2020) to support the groundwater remedy selection process and address potential changes in Site conditions as appropriate during the ash pond closure. The adaptive Site management approach takes 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 US EPA guidelines for MNA (US EPA 2007, 2015b). In 2007, the US EPA issued MNA technical guidance specific to inorganic contaminants (US EPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (US EPA, 2015b).

- **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.

Georgia Power will address Phase IV as appropriate during the development of the future corrective action monitoring plan, after the final remedy selection report.

2.0 SUMMARY OF WORK COMPLETED

The following subsections summarize field investigation activities and supplemental data collected since the previous *Semi-Annual Remedy Selection and Design Progress Report* (Golder, 2022a). These activities support Site characterization and delineation of Appendix IV SSLs, as well as evaluation of the corrective measures presented in the ACM Report. These data will be used to evaluate the feasibility, mechanisms, rates, and stability of identified remedial alternatives, including MNA as a corrective action to address SSLs of arsenic, beryllium, cobalt, lithium, selenium and radium in groundwater at AP-2 and 3/4. An evaluation of these data as they relate to remedy selection alternatives is ongoing and will be presented in a future report(s).

2.1 Nature and Extent Delineation

The January through June 2022 assessment monitoring groundwater data show SSLs at concentrations that exceed the state and/or federal Groundwater Protection Standards (GWPS) as presented in the table below. Details are provided in the *2022 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2022b).

AP-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	AP-2 and 3/4 Monitoring Well
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D
Lithium	DGWC-47, DGWC-48
Selenium	DGWC-9
Combined Radium	B-104D, B-109D

The locations of the Site monitoring wells and piezometers are shown on Figures 2. Table 2 provides a summary of well construction details for each of the Site wells and piezometers. Potentiometric surface maps of the January 2022 groundwater surface elevations are provided on Figures 3A and 3B.

Well and constituents with SSLs were further evaluated by Groundwater Stats Consulting (GSC) using the Sen's Slope/Mann Kendall trend test (Appendix B). The full report generated from the analyses is provided in Appendix D of the *2022 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2022b). The lack of increasing trends at wells where SSLs have been identified along with multiple decreasing trends confirms the chemical stability of the groundwater and the plume appears to be stable.

Based on Site data, the combined radium SSLs at the Site is the result of natural occurring radium in the bedrock influencing groundwater chemistry and not the result of a release from AP-2 and 3/4. An ASD has been prepared and submitted for the Site (Golder, 2022c). The evidence for a natural source of radium to groundwater is as follows:

- Groundwater results for the shallow monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.
- Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.
- The wells with elevated radium concentrations show low levels of CCR indicator parameters.
- Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.
- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

Based on this demonstration (Golder, 2022c), the combined radium concentrations at the Site are attributed to a natural source, and not due to a release from the Ash Pond.

Horizontal and Vertical Delineation

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, selenium, and combined radium SSLs, multiple piezometers have been installed and sampled at the Site (Golder, 2022d); refer to the table below for delineation status. In addition, surface water has been sampled at multiple locations to demonstrate horizontal delineation in surface water bodies where proximity to surface water prevented installation of additional piezometers. Figures 4 through 8 present isoconcentration contours for of each of the constituents with an exceedance of the GWPS: arsenic, beryllium, cobalt, lithium, selenium, and combined radium.

Detection/Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well	Horizontal Delineation Well / Surface Water Monitoring Location
DGWC-5	Beryllium	B-111D	B-93, B-98, Flow is toward AP-4 ^[3]
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4 ^[3]
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4 ^[3]
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4 ^[3]
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4 ^[3]
	Selenium ^[4]	B-101D	DGWC-10, Flow is toward AP-4 ^[3]
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4 ^[3]
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4 ^[3]
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-123D / B-115D ^[1]	B-77
	Cobalt	B-123D /B-115D ^[1]	B-77
	Lithium	B-123D /B-115D ^[1]	B-77
DGWC-48	Beryllium	B-104D / B-122D ^[1]	B-83
	Cobalt	B-104D / B-122D ^[1]	B-83
	Lithium	B-104D / B-122D ^[1]	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4 ^[3]
B-63	Cobalt	B-122D ^[2]	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4 ^[3]
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4 ^[3]
	Cobalt	B-111D	B-98, Flow is toward AP-4 ^[3]
B-104D	Cobalt	B-122D ^[2]	B-122D ^[2]
	Combined Radium ^[4]	B-123D Pending ^[2]	B-122D ^[2]
B-109D	Combined Radium ^[4]	B-123D Pending ^[2]	B-122D ^[2]

Notes:

- [1] Delineation status is pending additional data collection at location B-115D, B-122D, B-123D. A minimum of four data points is needed to perform the required statistical analyses.
- [2] Monitoring wells B-122 and B-123 were installed in April/May 2022 and first sampled in June 2022. Verification sampling is ongoing.
- [3] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.
- [4] An ASD for Combined Radium has been submitted for Plant McDonough. Georgia Power will continue to monitor the occurrence of combined radium and evaluate remedial alternatives until such time that GA EPD approves the ASD.

Based on data collected to date, the horizontal extent of target SSLs in groundwater has been determined and there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4. The delineation of vertical extent of target SSLs at DGWC-47, DGWC-48 and B-104D is ongoing. Horizontal and vertical delineation is summarized below based on review of analytical results, statistical analyses and the isoconcentration contours (Figures 4-8). Details regarding the specific well pairs used for delineation and the status of delineation is described in detail in the *2022 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2022b).

2.2 Supplemental Data Collection and Analysis

Additional field investigation activities and data analysis have been performed to evaluate potential sources of constituents of concern as well as possible remedial alternatives. A summary of these data is described below.

Bench-Scale Treatability Study

Terra Systems, Inc. was subcontracted to perform a bench-scale treatability study to evaluate neutralization/precipitation with potassium bicarbonate, sodium bicarbonate, and precipitation/adsorption with zero valent iron (ZVI), calcium oxide, ferric oxide and/or ferrous sulfide for two groundwater samples collected in February 2022 from AP-2 and 3/4 (DGWC-20 and DGWC-48). The objective of the bench-scale study was to evaluate in situ 'chemical sequestration' as a remediation technology for several metals including arsenic, beryllium, cobalt, lithium, and selenium and to:

- Identify the feasibility of in-situ remediation
- Determine the design parameters including reagent dosage and demand.

Results of the treatability study from AP-2 and 3/4 are as follows:

- Arsenic: Arsenic was not present in the Initial Condition (IC) for DGWC-48, so results are inconclusive. In DGWC-20, total and dissolved arsenic was present in the IC in exceedance of MCLs. During jar testing, arsenic in DGWC-20 was reduced below the MCL in the potassium and sodium bicarbonate treatments. ZVI showed no treatment for arsenic.
- Beryllium: In DGWC-48 and DGWC-20 (estimated "J", see Tables 8 and 9, Appendix D), all potassium and sodium bicarbonate treatments reduced dissolved beryllium to below the MCL; however, the ZVI treatments did not.
- Cobalt: In DGWC-48 and DGWC-20, dissolved cobalt concentrations were reduced between 54% and 76% using potassium and sodium bicarbonate, with sodium slightly outperforming potassium bicarbonate for dissolved cobalt removal. However, the observed reduction of observed cobalt was not below the GWPS.

- Lithium: None of the reagents were effective in treating dissolved lithium in groundwater sample from DGWC-48. There were only trace levels of dissolved lithium in the samples from DGWC-20.
- Selenium: Selenium was not detected in either the DGWC-48 or DGWC-20 initial characterization samples. These groundwater samples were spiked with a mixture of sodium selenite (Se⁴⁺) and sodium selenate (Se⁶⁺) to concentrations of 0.32 to 0.38 mg/L. None of the treatments reduced dissolved selenium to below the MCL. Only the highest (1.5 g/L) ZVI reduced dissolved selenium from the Control 0 by more than 50% in the DGWC-48 groundwater and no treatment reached the 50% threshold in the sample from DGWC-20.

The addition of relatively high dosages of potassium or sodium bicarbonate buffers were generally able to reach the GWPS for arsenic, and beryllium. Cobalt concentrations were reduced between 54%-76%, but GWPS were not reached. Lithium was not effectively treated in the DGWC-48 groundwater sample. Only the highest dosage of ZVI appeared to reduce selenium in one of the two groundwater samples with selenium. Tabulated results and the full treatability study summary is included in the Terra Systems, Inc. Report for Golder/WSP for Coal Combustion Residue Treatability Study Report included as Appendix C.

Phase 2 Bench Scale Treatability Study

During June 2022, additional soils were collected from soil borings drilled adjacent to monitoring wells DGWC-68A, DGWC-69, and DGWC-40. Groundwater samples were also collected from each of these three wells as well as monitoring wells DGWC-20 and DGWC-48. Samples were submitted to Terra Systems, Inc. for a second phase of treatability study using site specific soil and groundwater. Phase 2 Jar testing replicates the Phase 1 testing with the addition of Site-specific soils/sediments into the jars to observe the effects of 'aquifer solids' materials on the various reagent's effectiveness. This study is ongoing, and results will be presented in future reports.

3.0 UPDATED SITE CONCEPTUAL SITE MODEL

The additional data collected since the issuance of the ACM, together with new data evaluation tools and interpretations (described in the previous semi-annual remedy selection report), allow the development of a more refined conceptual site model (CSM). The following summarizes the current understanding of the CSM within the context of selecting an appropriate groundwater corrective measure for AP-2 and 3/4.

- Data collected during this reporting period are consistent with the CSM as described in Hydrogeologic Assessment Report (HAR; Golder, 2022d).
 - Groundwater elevations recorded from Site monitoring wells have been used to update the Site potentiometric surface contour map. The groundwater flow direction interpreted during the January 2022 water level gauging event, as shown on Figures 3A and 3B, is consistent with the post closure model predictions. Groundwater flow is radial from high to low topography with an overall south-southeast flow towards the Chattahoochee River, consistent with pre-Site development conditions. Although groundwater flow is generally towards the south, monitoring wells previously established for delineation north of the unit will remain in the network for the time being.
 - Data from additional vertical delineation wells was used to refine the bedrock surface contour map. Minor modifications to the bedrock surface have been documented in the HAR and do not significantly impact the CSM (Golder, 2022d)

4.0 PLANNED ACTIVITIES

Georgia Power has initiated activities as outlined in the ACM Report (Golder, 2020) 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 over the Site's life cycle 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 identified in the ACM Report.

Supplementary data collection and evaluation activities proposed to be completed within the next 6 months are presented on Table 3, with the key elements summarized below.

- Evaluate results from additional groundwater quality data to complete statistical analyses of delineation data. In addition to Appendix III/IV constituents, samples may also be analyzed for major cations/anions and other parameters for characterization of groundwater and to evaluate plume stability as well as potential remedies.
- Evaluate data from groundwater samples collected from select wells at AP-2 and 3/4 for a second phase of jar testing. Phase 2 Jar testing replicates the Phase 1 testing with the addition of Site-specific soils into the jars to observe the effects of 'aquifer solids' materials on the various reagent's effectiveness.
- On-going geochemical modeling and evaluation will be performed to evaluate the cause of the cobalt exceedance at wells DGWC-19, DGWC-20, DGWC-47, and DGWC-48 and the potential that it is due to consistently low pH in that area (<5.0), while other wells near to and surrounding AP-2 and 3/4 have a higher pH (5.5 to 7.0).

Georgia Power will continue to prepare semi-annual progress reports to document AP-2 and 3/4 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 future semi-annual progress reports in 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.

5.0 REFERENCES

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TABLES

TABLE 1
Evaluation of Remedial Technologies
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, 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 arsenic (As), beryllium (Be), cobalt (Co), lithium (Li) and selenium (Se). Under anaerobic conditions, As 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 As, Be, Co, Se and to a lesser degree Li 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 As.	The effective immobilization of As, Be, Co, Li and Se 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 As, Be, Co, Li and Se 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 As, Be, Co, Li and Se.	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-2 & 3/4, 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.
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 As, Be, Co, Li and Se at AP-2 & 3/4, 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 Be and Li, the main attenuation processes include sorption to iron and manganese oxides.	Physical and chemical MNA mechanisms for As, Be, Co, Li and Se, including dilution, dispersion, sorption, and oxidation reduction reactions can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. Attenuation processes for As, Be, Co, Li and Se are already occurring at the site as evidenced by groundwater data from the delineation wells. Source control 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 As, Be, Co, Li and Se at AP-2 & 3/4 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 As, Be, Co, Li and Se, or in combination with a second technology.

TABLE 1
Evaluation of Remedial Technologies
 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	Performance	Reliability
In-Situ Solidification / Stabilization (ISS)	In-situ stabilization (ISS) is a technique that uses mixing of the CCR with additives to solidify the material in place and reduce future dissolution of CCR compounds from the stabilized material. Additives typically include Portland cement, and the solidification is completed in-situ using large diameter augers. CCR located beneath the water table would be isolated by ISS.	Medium to high, groundwater impacts would be addressed through the processes of natural attenuation. This alternative would isolate/secure the source in a bound matrix, and over time, allow the concentrations of COCs in downgradient groundwater to decline to below applicable standards.	In-situ stabilization can be a reliable corrective measure for As, Be, Co, Li and Se 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 currently proposed for the concurrent removal of As, Be, Co, Li and Se. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB is 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 constructed as “funnel and gate” systems, where a barrier wall directs groundwater to a smaller “treatment gate” filled with reactive media.	PRBs have been shown to effectively address As, Be, Co, Li and Se in groundwater, but additional testing is required for Be and Li to select the appropriate reactive media. The approach is expected to achieve GWPS for both constituents as impacted groundwater passes through the reactive barrier. Certain redox kinetics may be slow and hence a thicker wall might be needed. Furthermore, additional testing is required to select the appropriate sorptive media mix, especially related to Be and Li.	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 better characterize current attenuation mechanisms and/or select the appropriate reactive media mix for a PRB wall.
Phyto Remediation (Phyto)	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-2 & 3/4, this corrective measure would likely be applied 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 As, Be, Co, Li and Se within the root zone as well as incidental uptake of dissolved As, Be, Co, Li and Se with groundwater is expected to occur concurrent with hydraulic control.	Once established (typically at the end of the third growing season), a phytoremediation ‘system’ is effective for providing hydraulic containment of groundwater, and potential reduction of As, Be, Co, Li and Se concentrations through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control. However, changing site conditions may make the corrective measure viable for the area downgradient of AP-2 & 3/4. Additional aquifer testing and/or groundwater flow modeling may be needed to confirm the suitability at that time.	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.

TABLE 1
Evaluation of Remedial Technologies
 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	Performance	Reliability
Subsurface Vertical Barrier Walls	<p>This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment; localized treatment achieved through the sorption or chemical precipitation reactions from construction of the walls are incidental to the design objective. Barrier walls can also be used in downgradient applications to limit discharge to a surface water feature or to reduce aquifer recharge from an adjacent surface water feature when groundwater extraction wells are placed near one. 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. Groundwater extraction from upgradient of the barrier is required to avoid groundwater mounding behind the barrier.</p>	<p>Barrier walls are a proven technology for seepage control and/or 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. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed.</p>	<p>Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.</p>

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 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
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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.	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling, and/or bench- and/or pilot-testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 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 fairly 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 As, Be, Co, Li and Se. 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.	Moderate. 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.	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. 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 As, Be, Co, Li and Se.
Monitored Natural Attenuation (MNA)	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. 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.	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.	The infrastructure to initiate MNA is already in place. Demonstrating attenuation mechanisms and capacity can be time-consuming and can take up to 24 months. MNA is expected to be successful within a reasonable time frame following pond closure. Engineering measures will be implemented during closure of AP-2 & 3/4 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
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 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, 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)	Easy to moderate, implementation of ISS will require a detailed design effort with 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. ISS has not been commonly used to stabilize entire ash units as part of a closure strategy.	Potential impacts of the remedy will be negligible.	In-situ stabilization of AP-2 & 3/4 is predicted to take a number of years to complete, depending on the 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.	Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, bench- and/or pilot-testing would be required to obtain design parameters prior to design and construction of the remedy, which may take up to 24 months. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.
Phyto Remediation (Phyto)	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (e.g., 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 will require some groundwater modeling, which may take up to 6 months. 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	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 or bedrock. Installation methods and materials are readily available. Once installed, above-ground infrastructure to pump and treat groundwater will be required. 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.	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. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone that may result in the mobilization of other constituents that may require treatment.	Installation of a barrier wall can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, some design phase and additional aquifer and compatibility testing will be required, which may take up to 24 months. 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 from a source area, it will likely have to be maintained long-term and coupled with other approaches.

TABLE 1
Evaluation of Remedial Technologies
 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)			Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements	Relative Costs	
Geochemical Approaches (in situ injection)	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new underground injection control (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 anaerobic 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 to As, Be, Co, and Se as a sparingly-soluble mineral, or could be applied to raise the groundwater pH to promote immobilization through sorption mechanisms. Additional evaluation required to determine likelihood to treat Li.
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 reinjection 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. Could be considered an effective measure to maintain hydraulic control.
Monitored Natural Attenuation (MNA)	MNA may require the implementation of institutional controls, such as deed restrictions, to preclude potential exposure to groundwater within the footprint of impacted groundwater until GWPS are achieved.	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community.	Low to medium	MNA is a suitable option at the Site for the following reasons: Concentrations of the target constituents showing SSLs are stable, decreasing, or are not increasing over time based on several years of monitoring data; Iso-concentration maps show the SSL constituents are well-defined and limited in extent; and dewatering and installation of closure-cover at the Site favors restoration of natural (pre-impoundment) groundwater flow.
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.	Medium, depending on permeability of aquifer	Not retained for further analysis. AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. Ash remaining in place is unsaturated, and capped, with very little moisture or infiltration rendering this remedial alternative unneeded. Other retained options are more effective in addressing groundwater corrective action.

TABLE 1
Evaluation of Remedial Technologies
 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)			Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements	Relative Costs	
Permeable Reactive Barrier (PRB)	Deed restrictions may be necessary for groundwater areas upgradient of the PRB (if not installed along the waste boundary). 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	Not retained for further analysis; a PRB cannot treat groundwater downgradient of the constructable alignment; there is minimal space available downgradient of the impacted wells; potential for increased maintenance due to potential biofouling and mineral precipitation. Further, construction of a PRB is likely to impede or restrict restoration of natural groundwater flow across AP-3/4.
Phyto Remediation (Phyto)	No 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 for further analysis; In areas north and northeast of AP-3/4 limited space is available between the CCR unit boundary and the property boundary and combined with the presence of site utilities makes this alternative unfeasible in this area. For areas south of AP-3, pH is the driver for the elevated cobalt concentrations. Phytoremediation is not a feasible alternative to address low pH conditions.
Subsurface Vertical Barrier Walls	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.	Due to the need for groundwater extraction associated with barrier walls, 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, remedy duration and complexity of above-ground treatment system)	Not retained for further analysis. A SVBW cannot treat groundwater downgradient of the constructable alignment; there is minimal space available downgradient of the impacted wells.

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-37	Downgradient	Overburden	1390482.2	2200919.8	766.21	763.7	39.7	734.4	724.4	10	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.7	2201148.6	757.43	754.7	25.0	740.0	730.0	10	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.6	2201540.1	759.89	757.0	21.2	746.2	736.2	10	11/6/2012
DGWC-40	Downgradient	Overburden	1390625.7	2201825.9	779.06	776.2	34.9	751.7	741.7	10	11/5/2012
DGWC-67	Downgradient	Overburden	1390953.8	2200830.7	766.70	767.0	56.3	720.7	710.7	10	3/14/2017
DGWC-68A	Downgradient	Overburden	1391301.2	2200734.9	765.33	765.4	29.8	746.0	736.0	10	4/20/2017
DGWC-69	Downgradient	Overburden	1391585.0	2200657.1	763.75	764.0	24.3	749.7	739.7	10	3/16/2017
DGWC-121	Downgradient	Overburden	1390739.7	2200849.4	764.16	764.5	50.0	724.8	714.8	10	3/22/2022
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.0	70.00	716.0	706.0	10	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.2	2200664.1	765.58	766.1	55	721.4	711.4	10	3/22/2021
B-113D	Downgradient	Upper Bedrock	1391264.6	2200719.2	758.22	758.8	85	684.4	674.4	10	3/30/2021

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.0	2202119.5	850.88	848.3	49.0	809.6	799.6	10	10/2/2012
DGWC-4	Downgradient	Overburden	1394171.5	2202662.4	814.85	812.1	45.0	777.4	767.4	10	10/3/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.3	2202965.1	791.75	788.7	30.0	769.0	759.0	10	10/4/2012
DGWC-8	Downgradient	Overburden	1394322.2	2203882.1	826.38	824.1	49.1	785.4	775.4	10	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.9	2204170.0	824.35	821.8	30.0	802.2	792.2	10	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.3	2204201.1	823.55	820.9	45.4	785.9	775.9	10	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.1	2204166.2	800.57	798.1	49.1	759.3	749.3	10	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.4	2204128.3	773.86	771.2	25.1	756.5	746.5	10	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.1	2204084.6	794.10	791.3	43.8	757.9	747.9	10	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.2	2204013.3	792.40	789.8	34.3	765.9	755.9	10	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.1	2203679.0	824.50	821.5	67.1	764.8	754.8	10	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.6	2203051.0	837.05	834.2	44.5	800.0	790.0	10	1/9/2013
DGWC-19	Downgradient	Overburden	1392342.6	2202601.0	825.46	822.9	39.8	793.5	783.5	10	3/12/2013
DGWC-20	Downgradient	Overburden	1392164.5	2202315.6	822.14	819.8	39.7	790.7	780.7	10	3/5/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.5	2202063.5	816.28	813.5	69.0	754.9	744.9	10	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.7	60.0	764.0	754.0	10	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.7	60.1	765.9	755.9	10	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.8	2201870.2	804.68	802.0	50.4	762.1	752.1	10	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.8	2202610.5	797.45	794.3	28.8	775.9	765.9	10	6/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.6	2202290.2	788.33	785.2	30.0	765.6	755.6	10	6/22/2016

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-63	Downgradient	Overburden	1390999.1	2202978.1	777.10	777.3	46.0	741.8	731.8	10	10/6/2016
B-66	Downgradient	Overburden	1393858.2	2204277.5	815.90	813.3	55.3	768.3	758.3	10	11/16/2016
B-77	Downgradient	Overburden	1390948.7	2202942.0	776.86	777.1	42	745.1	735.1	10	9/17/2019
B-82	Downgradient	Overburden	1393750.0	2204258.1	810.07	807.5	45	773.0	763.0	10	9/21/2019
B-83	Downgradient	Overburden	1390735.5	2202695.6	776.98	777.1	48.6	738.5	728.5	10	9/30/2019
B-88	Downgradient	Overburden	1394401.1	2203738.3	820.07	817.0	72	755.0	745.0	10	11/15/2019
B-92	Downgradient	Overburden	1394392.7	2203026.7	785.08	785.3	24.6	770.7	760.7	10	12/11/2019
B-93	Downgradient	Overburden	1394348.7	2202946.7	789.07	789.2	28.9	770.3	760.3	10	12/12/2019
B-97	Downgradient	Overburden/Upper Bedrock	1394430.0	2203008.3	786.29	786.6	31	765.3	755.3	10	2/11/2020
B-98	Downgradient	Overburden	1394392.5	2202934.0	789.67	789.8	19.4	780.8	770.8	10	2/10/2020
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-101D	Downgradient	Overburden/Upper Bedrock	1394063.6	2204168.2	824.29	821.2	75.00	756.3	746.3	10	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.4	2204200.4	823.42	820.6	85.00	746.2	736.2	10	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.3	2202298.5	787.90	785.3	60.00	735.3	725.3	10	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.1	2203869.2	826.21	823.5	80.00	754.1	744.1	10	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.5	2202596.4	823.38	820.6	85.75	745.5	735.5	10	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.1	2202312.5	821.13	818.4	80.00	749.4	739.4	10	10/27/2020
B-109D	Downgradient	Upper Bedrock	1393957.5	2202127.0	850.73	847.8	100.00	758.4	748.4	10	10/31/2020
B-111D	Downgradient	Upper Bedrock	1394303.4	2202956.4	791.87	789.1	85.00	714.9	704.9	10	11/3/2020
B-115D	Downgradient	Upper Bedrock	1391265.3	2202580.7	789.17	786.4	80	717.2	707.2	10	3/20/2021
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.0	70	775.0	765.0	10	3/6/2021
B-122D	Downgradient	Bedrock	1390992.8	2202975.4	777.03	777.3	85	707.5	697.5	10	3/24/2022

TABLE 2
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 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1, ASH POND 2 AND ASH POND 3/4 SUPPLEMENTAL SAMPLING NETWORK											
B-90	Downgradient	Overburden	1394501.0	2203212.6	784.00	784.2	33.4	760.8	750.8	10	12/10/2019
B-91	Downgradient	Overburden	1394447.1	2203123.9	782.98	783.1	34.6	758.5	748.5	10	12/11/2019
B-95	Downgradient	Overburden	1394518.6	2203167.7	784.00	784.3	33.3	761.3	751.3	10	2/11/2020
B-96	Downgradient	Overburden	1394478.7	2203099.3	784.92	785.3	33.1	762.2	752.2	10	2/10/2020
B-99	Downgradient	Overburden	1394524.2	2203084.5	782.39	782.6	12.3	775.3	770.3	5	7/7/2020
B-116D	Upgradient	Upper Bedrock	1390483.7	2200611.0	807.82	805.3	90	726.1	716.1	10	3/8/2021
B-117D	Upgradient	Upper Bedrock	1393963.8	2201727.3	863.82	861.2	75	796.5	786.5	10	3/17/2021
B-118	Upgradient	Upper Bedrock	1391219.3	2200449.7	807.70	805.0	75	740.2	730.2	10	3/9/2021
B-119D	Upgradient	Upper Bedrock	1391236.4	2200446.6	807.15	804.5	105	709.8	699.8	10	3/16/2021
PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.1	2202411.5	837.78	835.0	37.0	808.3	798.3	10	10/3/2012
B-6	Downgradient	Overburden	1394419.5	2203266.5	789.47	786.5	35.4	761.5	751.5	10	10/9/2012
B-7	Downgradient	Overburden	1394374.6	2203596.1	809.16	806.1	25.2	791.3	781.3	10	10/9/2012
B-16	Downgradient	Overburden	1392595.1	2203315.4	826.47	823.6	43.7	790.2	780.2	10	12/19/2012
B-18	Downgradient	Overburden	1392521.0	2202875.5	826.56	823.9	32.6	801.5	791.5	10	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.3	79.1	751.0	741.0	10	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.5	54.8	789.1	779.1	10	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.6	49.3	811.7	801.7	10	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.4	2201679.2	816.08	813.3	69.4	754.3	744.3	10	10/31/2012
B-29	Downgradient	Overburden	1391890.0	2201422.0	816.43	813.5	54.4	769.4	759.4	10	1/11/2013
B-31	Downgradient	Upper Bedrock	1392034.3	2200928.5	797.47	794.9	45.1	760.2	750.2	10	1/22/2013
B-41	Downgradient	Overburden	1390920.8	2201751.9	795.20	792.4	60.0	743.0	733.0	10	11/14/2012
B-50	Downgradient	Overburden	1391657.1	2201841.0	809.67	809.2	36.0	784.4	774.4	10	6/24/2016
B-51	Downgradient	Overburden	1390501.2	2200906.5	765.92	763.3	65.0	708.3	698.3	10	6/27/2016
B-52	Downgradient	Overburden	1392308.3	2201314.8	822.89	820.3	50.0	781.4	771.4	10	9/28/2016

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-54	Downgradient	Overburden/Upper Bedrock	1394423.5	2203140.7	785.46	782.6	34.2	758.8	748.8	10	9/26/2016
B-55	Downgradient	Overburden	1394142.6	2204147.9	825.12	822.9	52.0	781.9	771.9	10	9/22/2016
B-57	Downgradient	Upper Bedrock	1391396.3	2202736.9	789.04	786.0	50.5	746.0	736.0	10	9/24/2016
B-58	Downgradient	Overburden	1391125.7	2202426.5	788.17	785.2	45.0	750.7	740.7	10	9/23/2016
B-59	Downgradient	Overburden/Upper Bedrock	1394349.1	2203001.1	788.00	785.5	30.3	765.3	755.3	10	9/23/2016
B-60	Downgradient	Overburden	1391100.7	2202881.6	782.13	779.2	49.8	739.9	729.9	10	9/29/2016
B-61	Downgradient	Overburden	1390957.8	2202505.8	782.09	779.0	51.9	737.5	727.5	10	9/29/2016
B-64	Downgradient	Overburden	1394381.9	2203031.3	785.83	786.1	30.4	766.1	756.1	10	11/2/2016
B-65	Downgradient	Overburden/Upper Bedrock	1394381.2	2204050.8	821.95	822.3	45.4	787.9	777.9	10	11/15/2016
B-68	Downgradient	Overburden	1391298.2	2200714.2	758.68	759.0	18.0	751.0	741.0	10	3/16/2017
B-72	Downgradient	Overburden	1391242.2	2200723.9	758.85	758.09	21.9	746.6	736.6	10	4/19/2017
B-73	Downgradient	Overburden	1391352.4	2200697.5	759.46	758.85	15.8	753.5	743.5	10	4/19/2017
B-74	Downgradient	Overburden	1391279.8	2200665.3	759.44	758.96	16.5	748.2	743.2	5	4/25/2017
B-78	Downgradient	Overburden/Upper Bedrock	1394328.2	2202958.2	790.75	788.0	30	768.0	758.5	10	9/22/2019
B-79	Downgradient	Overburden	1394458.6	2203223.0	788.66	785.9	34.93	761.0	751.5	10	9/21/2019
B-80	Downgradient	Overburden	1394372.6	2203533.9	804.47	801.8	30	782.0	772.5	10	9/20/2019
B-81	Downgradient	Overburden	1394364.9	2203741.1	820.56	817.7	50	778.5	768.5	10	9/22/2019
B-84	Downgradient	Overburden	1390411.9	2202241.9	776.34	776.6	49.1	737.5	727.5	10	10/1/2019
B-85	Downgradient	Overburden/Upper Bedrock	1394433.4	2203134.5	782.54	782.7	34.5	758.5	748.5	10	11/18/2019
B-86	Downgradient	Overburden/Upper Bedrock	1394480.0	2203206.6	784.29	784.6	34.1	760.5	750.5	10	11/18/2019

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-87	Downgradient	Overburden	1394401.9	2203531.3	803.37	800.4	42	768.7	758.7	10	11/17/2019
B-89	Downgradient	Upper Bedrock	1394398.4	2204049.4	822.36	822.6	49.5	783.1	773.1	10	11/19/2019
B-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.24	764.6	754.6	10	1/23/2020
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.00	733.8	723.8	10	10/15/2020
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.00	711.7	701.7	10	11/17/2020
B-123D	Downgradient	Bedrock	1391234.4	2202608.4	781.80	778.9	160	668.9	618.9	50	4/4/2022

Notes:

1. bgs = below ground surface
2. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
3. NAD - North American Datum; NAVD - North American Vertical Datum

TABLE 3
Proposed ACM Supplemental Data Collection Tasks for July through December 2022
 Georgia Power – Plant McDonough-Atkinson AP-2 and 3/4
 Atlanta, Georgia

Data Collection Event	Applicable CMs	Applicability / Rationale	Field Component	Parameters of Interest (POI)
Groundwater Sampling	ISI MNA	(i) Evaluation of attenuation mechanisms and rates and aquifer capacity for attenuation. (ii) Continue sampling to provide sufficient data for statistical analyses at assessment wells. (iii) 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. Additional volume to submit for Phase 2 Jar Testing to be performed at select locations (DGWC-19, DGWC-20, DGWC-47, DGWC-48).
Soil Sampling	ISI MNA	Evaluate the effectiveness of different injection media for treatment of arsenic, beryllium, cobalt, lithium, and selenium.	Collect soil samples from soil borings near DGWC-19, DGWC-20, DGWC-47, DGWC-48.	Perform Phase 2 Jar Testing using soil/sediments and groundwater from the site to evaluate effects of 'aquifer solids' on the various reactant's (e.g. potassium bicarbonate) treatment effectiveness.
Geochemical Modeling	ISI MNA	MNA as a component of Final Remedy Selection Support development of injection media for ISI.	No Field Component: Phase II & III geochemical modeling and assessment.	Geochemical modeling performed to evaluate the cause of the cobalt exceedance at wells DGWC-19, DGWC-20, DGWC-47 and 48 and the potential that it is due to consistently low pH in that area (<5.0), while near to and surrounding AP-2 and 3/4 have a higher pH (5.5 to 7.0).

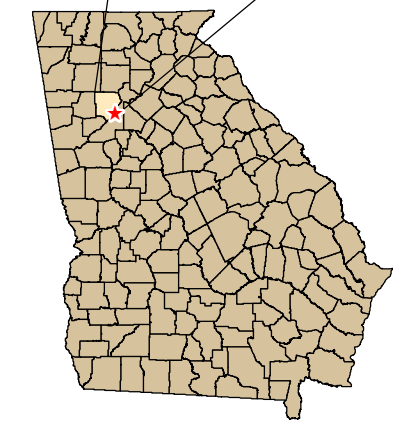
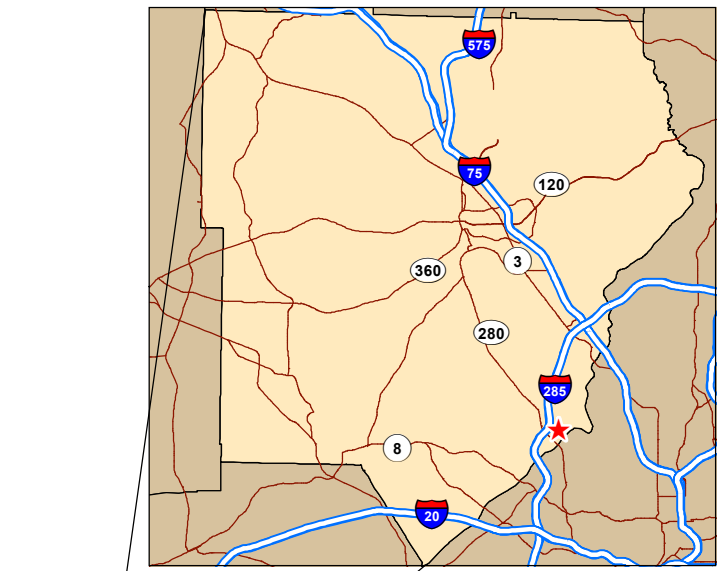
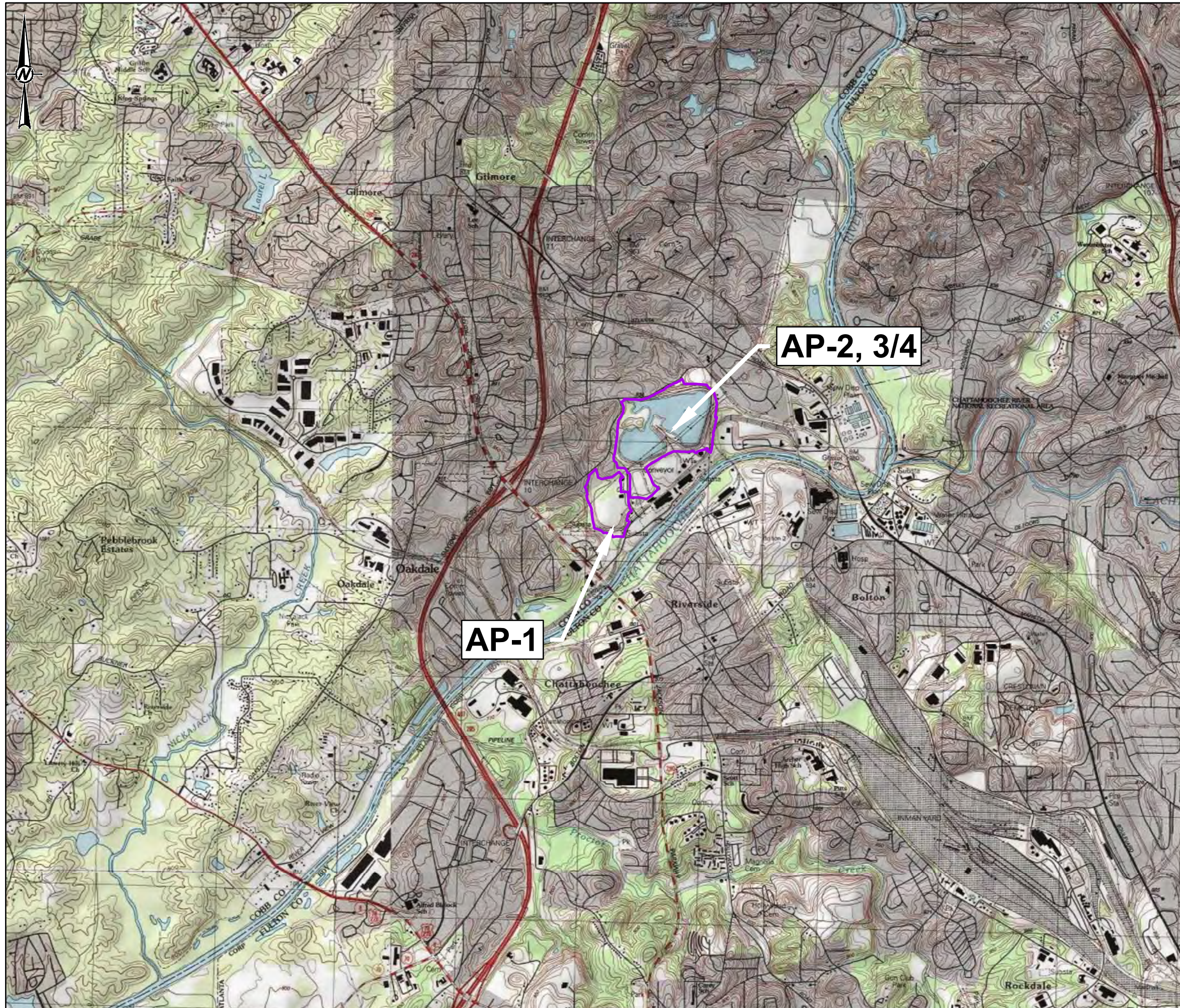
Applicable Corrective Measures (CM Retained):

ISI - Geochemical Approaches (In-Situ Injection);

P&T - Hydraulic Containment (Pump and Treat);

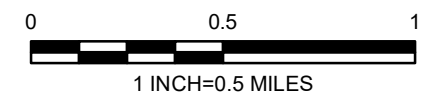
MNA - Monitored Natural Attenuation

FIGURES



REFERENCE

SERVICE LAYER CREDITS: COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
SITE LOCATION MAP

CONSULTANT	YYYY-MM-DD	2019-1-31
wsp GOLDER	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DP
	REVIEWED/APPROVED	RPK

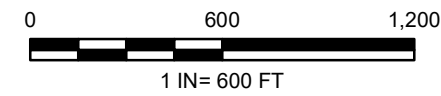
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSIB



- LEGEND**
- ◆ AP-1 MONITORING WELL
 - ◆ AP-2,3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ◆ ASSESSMENT MONITORING WELLS
 - ◆ PIEZOMETER
 - ◆ DEWATERING WELL
 - ◆ SURFACE WATER MONITORING LOCATION
 - ▲ TEST PIT LOCATIONS
 - STAFF GAUGE
 - PROPERTY BOUNDARY
 - PERMIT BOUNDARY

NOTES
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND APRIL 20, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



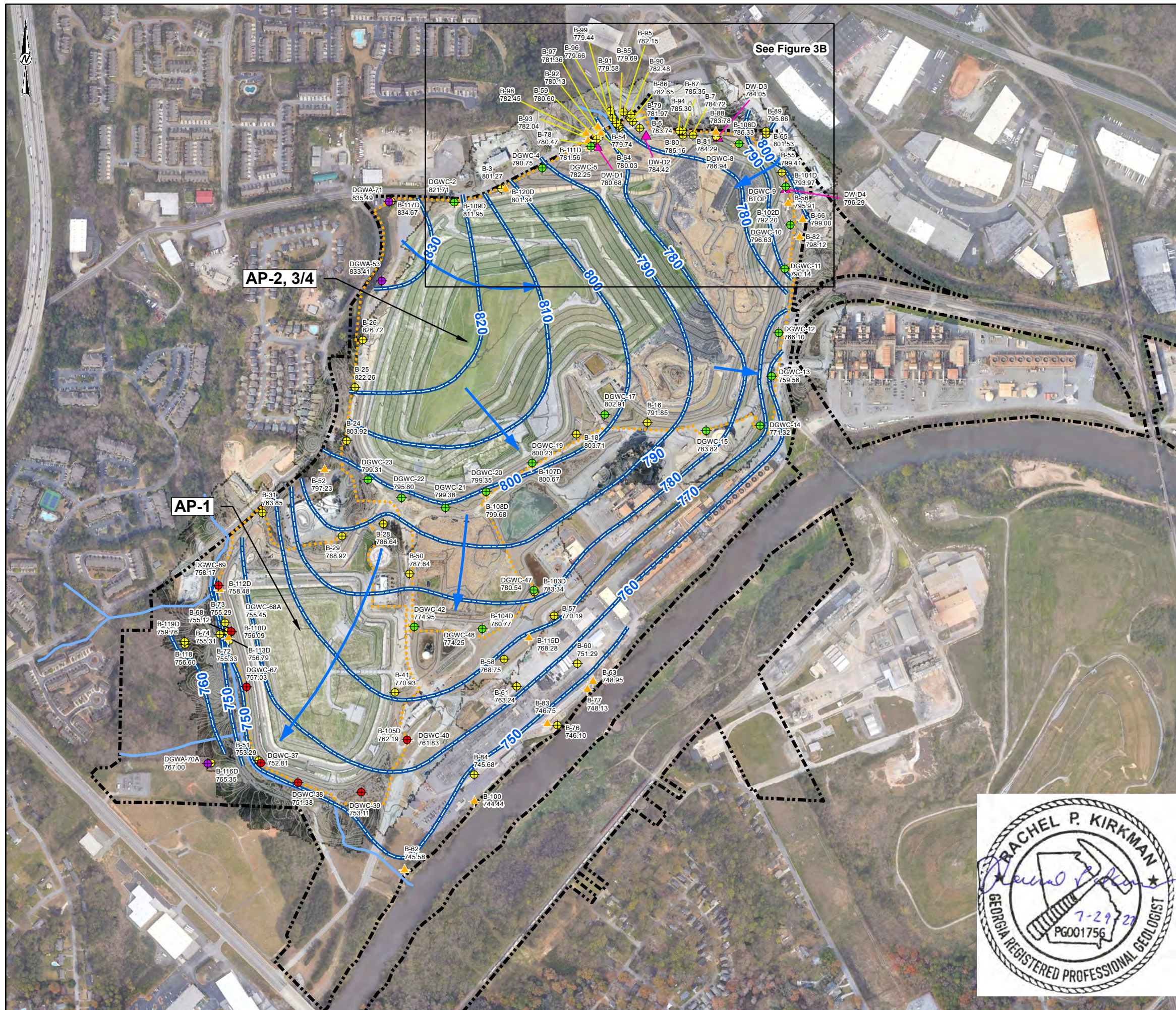
CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH

PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
**MONITORING WELL, PIEZOMETER AND SURFACE WATER
 LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-06-13
	PREPARED	SEB
WSP GOLDER	DESIGN	DLP
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

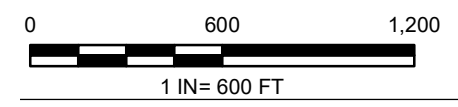
THE MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THIS SHEET HAS BEEN MODIFIED FROM ANS.R



- LEGEND**
- ◆ AP-1 MONITORING WELL
 - ◆ AP-2,3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ▲ ASSESSMENT MONITORING WELLS
 - ◆ PIEZOMETER
 - ▲ DEWATERING WELL
 - ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION
 - GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
 - SURFACE WATER STREAM
 - PERMIT BOUNDARY
 - PROPERTY BOUNDARY
 - EXISTING TOPOGRAPHY 10-FOOT CONTOUR
 - EXISTING TOPOGRAPHY 2-FOOT CONTOUR

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 18, 2022 BY GOLDER ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
 4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.
 5. BTOP= BELOW TOP OF PUMP.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY.



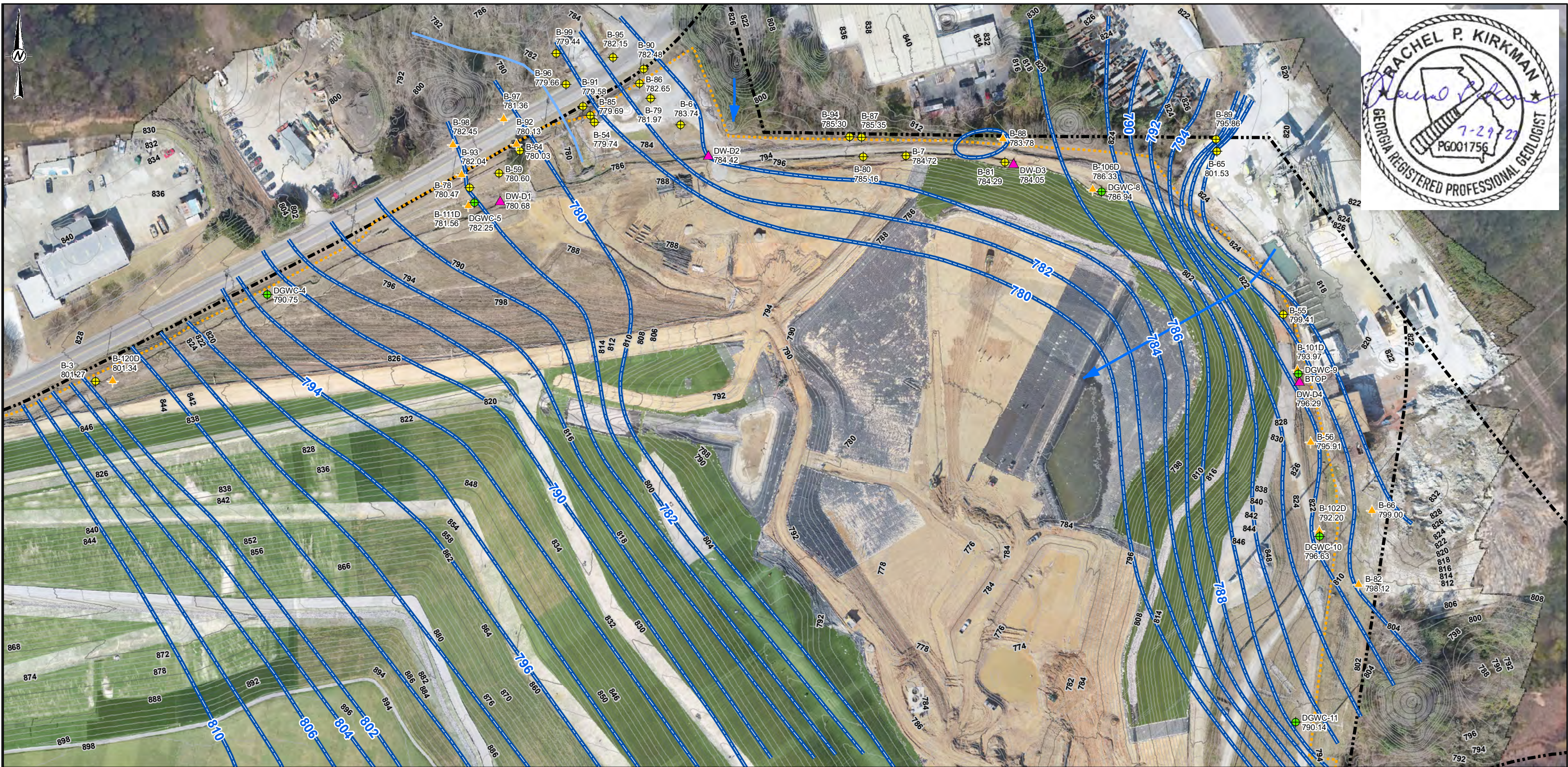
CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH

PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP – JANUARY 18, 2022

CONSULTANT	YYYY-MM-DD	2022-02-11
GOLDER	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANSIB



- LEGEND**
- AP-1 MONITORING WELL
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - ▲ ASSESSMENT MONITORING WELLS
 - PIEZOMETER
 - ▲ DEWATERING WELL
 - GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION
 - SURFACE WATER STREAM
 - - - PERMIT BOUNDARY
 - - - PROPERTY BOUNDARY
 - EXISTING TOPOGRAPHY 10-FOOT CONTOUR
 - EXISTING TOPOGRAPHY 2-FOOT CONTOUR

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 18, 2022 BY GOLDR ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
 4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.
 5. BTOP = BELOW TOP OF PUMP.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH

PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP
JANUARY 18, 2022

CONSULTANT
 WSP GOLDER

YYYY-MM-DD	2/23/2022
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RPK

PROJECT NO. CONTROL REV. FIGURE
 166849621 0 3B

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS18



LEGEND

- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ◆ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ◆ DEWATERING WELL
- ◆ SURFACE WATER MONITORING LOCATION
- 0.01 ARSENIC GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- - - PROPERTY BOUNDARY
- PERMIT BOUNDARY

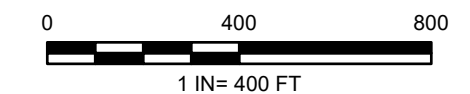
NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Arsenic	mg/L	0.01

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
**ARSENIC ISOCONCENTRATION CONTOUR MAP -
 JANUARY 2022**

CONSULTANT	YYYY-MM-DD	2022-07-19
	PREPARED	DJC
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

PROJECT No.
 166849621

Rev.
 0

FIGURE
4

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADE WELL
- ★ ASSESSMENT MONITORING WELLS
- PIEZOMETER
- ▲ DEWATERING WELL
- SURFACE WATER MONITORING LOCATION
- 0.004 BERYLLIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

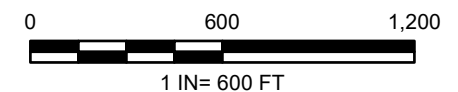
NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Beryllium	mg/L	0.004

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2021 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
**BERYLLIUM ISOCONCENTRATION CONTOUR MAP -
 JANUARY 2022**

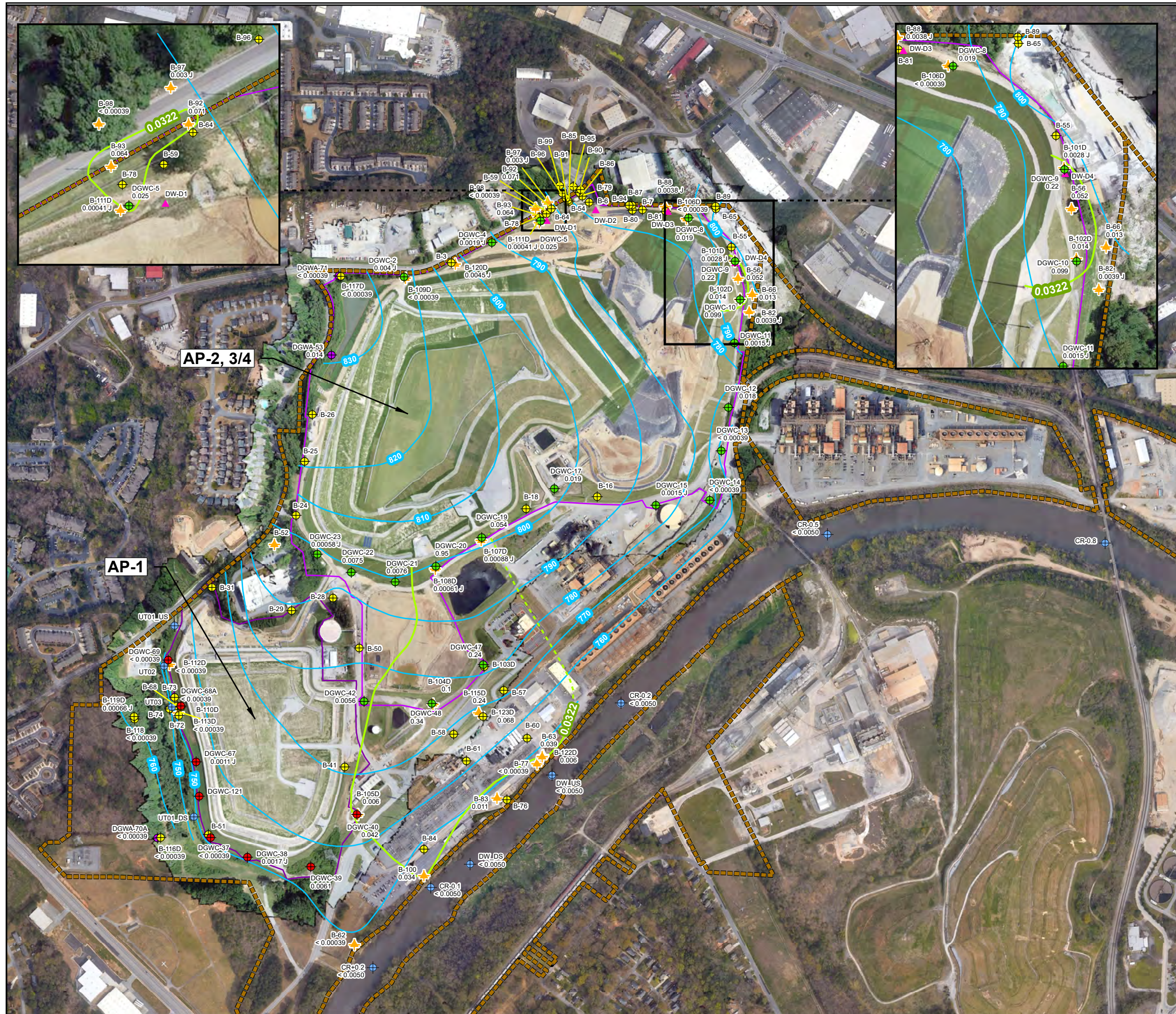
CONSULTANT	YYYY-MM-DD	2022-07-19
wsp GOLDER	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

PROJECT No.
 166849621

Rev.
 0

FIGURE
5

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

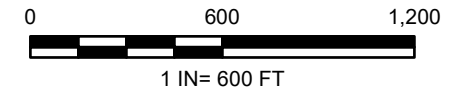


- LEGEND**
- AP-1 MONITORING WELL
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - ASSESSMENT MONITORING WELLS
 - PIEZOMETER
 - DEWATERING WELL
 - SURFACE WATER MONITORING LOCATION
 - 0.0322 COBALT GWPS ISOCONCENTRATION CONTOUR
 - COBALT GWPS ISOCONCENTRATION CONTOUR (INFERRED)
 - INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
 - PROPERTY BOUNDARY
 - PERMIT BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
 2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD. RSL = (FEDERAL REGIONAL SCREENING LEVEL)
 3. DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
 4. GWPS IS EQUAL TO SITE SPECIFIC BACKGROUND CONCENTRATION AS THERE IS NO MCL AND THE RSL IS BELOW SITE SPECIFIC BACKGROUND
 5. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
 6. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Cobalt	mg/L	0.0322

- REFERENCE**
1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
COBALT ISOCONCENTRATION CONTOUR MAP -
JANUARY 2022

CONSULTANT	YYYY-MM-DD	2022-07-19
WSP GOLDER	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK



LEGEND

- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADEMENT WELL
- ★ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ▲ DEWATERING WELL
- ◆ SURFACE WATER MONITORING LOCATION
- 0.04 LITHIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

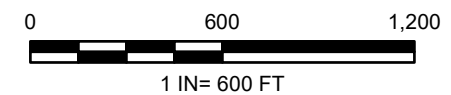
NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Lithium	mg/L	0.04

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
**LITHIUM ISOCONCENTRATION CONTOUR MAP -
 JANUARY 2022**

CONSULTANT	YYYY-MM-DD	2022-07-26
wsp GOLDER	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK



LEGEND

- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ◆ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ◆ DEWATERING WELL
- ◆ SURFACE WATER MONITORING LOCATION
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- - - PROPERTY BOUNDARY
- PERMIT BOUNDARY

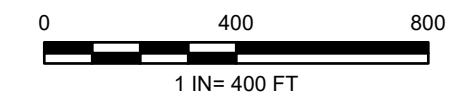
NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Radium (226 + 228)	pCi/L	5.61

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
RADIUM CONCENTRATION CONTOUR MAP -
JANUARY 2022

CONSULTANT	YYYY-MM-DD	2022-07-19
	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

PROJECT No.
 166849621

Rev.
 0

FIGURE
8

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

APPENDIX A
ANALYTICAL DATA REPORTS

ANALYTICAL REPORT

Eurofins Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-26651-1
Client Project/Site: Plant McDonough (166949621)

For:

Golder Associates Inc.
27200 Haggerty Road, Suite B-12
Farmington Hills, Michigan 48331-5719

Attn: Dawn Prell



*Authorized for release by:
4/4/2022 1:47:47 PM*

Ryan Henry, Project Manager I
(865)291-3000
williamr.henry@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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

Case Narrative

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Job ID: 140-26651-1

Laboratory: Eurofins Knoxville

Narrative

Job Narrative 140-26651-1

Receipt

The sample was received on 1/12/2022 at 10:00am and arrived in good condition. The temperature of the cooler at receipt was 20.2° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The following sample was received at the laboratory outside the required temperature criteria: B-117D (52-52.5') (140-26651-1). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor

Case Narrative

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Job ID: 140-26651-1 (Continued)

Laboratory: Eurofins Knoxville (Continued)

V1 = Total volume of leachate, mL
V2 = Volume of leachate digested, mL
W = Wet weight of sample, g
S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

Magnesium was not reported for step 1 because the extraction solution for this step (magnesium sulfate) contains high levels of magnesium. Sodium was not reported for steps 2 and 5 since the extraction solutions for these steps contain high levels of sodium. The sum of steps 1 through 7 is much higher than the total result for sodium and magnesium due to the magnesium and sodium introduced by the extraction solutions.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: The serial dilution performed for the following samples associated with batch 140-60348 was outside control limits: (140-26651-A-1-A SD), (140-26651-A-1-A SD ^5) and (140-26651-A-1-A SD ^50)

Method 6010B: The following sample was diluted due to the presence of Titanium which interferes with Cobalt: B-117D (52-52.5') (140-26651-1). Elevated reporting limits (RLs) are provided.

Methods 6010B, 6010B SEP: The following sample was diluted to bring the concentration of target analyte, Aluminum, within the calibration range: B-117D (52-52.5') (140-26651-1). Elevated reporting limits (RLs) are provided.

Method 6010B SEP: The sample duplicate (DUP) precision for preparation batch 140-60023, 140-60073 and 140-60153 and analytical batch 140-60317 was outside control limits. Sample matrix interference is suspected.

Method 6010B SEP: The serial dilution performed for the following sample associated with batch 140-60317 was outside control limits: B-117D (52-52.5') (140-26651-1) Sample matrix effects suspected.

Method 6010B SEP: The sample duplicate (DUP) precision for preparation batch 140-60194 and analytical batch 140-60348 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry

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

Sample Summary

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-26651-1	B-117D (52-52.5')	Solid	12/08/21 10:19	01/12/22 10:00

1

2

3

4

5

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9

10

11

12

13

Client Sample Results

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: B-117D (52-52.5')

Lab Sample ID: 140-26651-1

Date Collected: 12/08/21 10:19

Matrix: Solid

Date Received: 01/12/22 10:00

Percent Solids: 99.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Arsenic	ND		2.0	0.52	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Boron	ND		40	40	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Cobalt	ND		10	0.18	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Iron	ND		20	12	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Lithium	ND		10	0.60	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Manganese	2.0	J	3.0	0.12	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4
Molybdenum	ND		8.0	0.33	mg/Kg	✱	03/23/22 08:00	03/31/22 12:55	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Arsenic	ND		1.5	0.39	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Boron	ND		30	30	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Cobalt	ND		7.5	0.19	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Iron	ND		15	8.7	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Lithium	ND		7.5	0.45	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Manganese	2.8		2.3	0.84	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3
Molybdenum	ND		6.0	0.25	mg/Kg	✱	03/24/22 08:00	03/31/22 13:35	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19		10	2.1	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Arsenic	ND		0.50	0.13	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Boron	ND		10	10	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Cobalt	0.13	J	2.5	0.045	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Iron	15		5.0	2.9	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Lithium	ND		2.5	0.15	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Manganese	12	B	0.75	0.027	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1
Molybdenum	ND		2.0	0.082	mg/Kg	✱	03/25/22 08:00	03/31/22 14:15	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	460		10	1.6	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Arsenic	ND		0.50	0.22	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Boron	ND		10	10	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Cobalt	0.31	J	2.5	0.053	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Iron	740		5.0	2.9	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Lithium	0.82	J	2.5	0.15	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Manganese	17		0.75	0.13	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1
Molybdenum	ND		2.0	0.082	mg/Kg	✱	03/26/22 08:00	03/31/22 14:54	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	96	J	150	24	mg/Kg	✱	03/28/22 08:00	03/31/22 15:34	5
Arsenic	ND		7.5	1.9	mg/Kg	✱	03/28/22 08:00	03/31/22 15:34	5
Boron	ND		150	150	mg/Kg	✱	03/28/22 08:00	03/31/22 15:34	5
Cobalt	ND		38	0.60	mg/Kg	✱	03/28/22 08:00	03/31/22 15:34	5
Iron	ND		75	44	mg/Kg	✱	03/28/22 08:00	03/31/22 15:34	5
Lithium	ND		38	2.2	mg/Kg	✱	03/28/22 08:00	03/31/22 15:34	5

Eurofins Knoxville

Client Sample Results

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: B-117D (52-52.5')

Lab Sample ID: 140-26651-1

Date Collected: 12/08/21 10:19

Matrix: Solid

Date Received: 01/12/22 10:00

Percent Solids: 99.8

Method: 6010B SEP - SEP Metals (ICP) - Step 5 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		11	1.9	mg/Kg	☆	03/28/22 08:00	03/31/22 15:34	5
Molybdenum	ND		30	1.3	mg/Kg	☆	03/28/22 08:00	03/31/22 15:34	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4700		10	1.6	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Arsenic	0.69		0.50	0.15	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Boron	ND		10	10	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Cobalt	2.9		2.5	0.046	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Iron	6700		5.0	2.9	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Lithium	13		2.5	0.15	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Manganese	150		0.75	0.25	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Molybdenum	ND		2.0	0.099	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52000		100	16	mg/Kg	☆	03/29/22 08:00	04/01/22 12:19	10
Arsenic	0.76	B	0.50	0.13	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Cobalt	0.50	J	2.5	0.026	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Iron	3700		5.0	4.1	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Lithium	6.0		2.5	0.15	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Manganese	89		0.75	0.11	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Molybdenum	ND		2.0	0.082	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	57000		10	1.6	mg/Kg			04/04/22 11:23	1
Arsenic	1.5		0.50	0.13	mg/Kg			04/04/22 11:23	1
Cobalt	3.8		2.5	0.023	mg/Kg			04/04/22 11:23	1
Iron	11000		5.0	4.1	mg/Kg			04/04/22 11:23	1
Lithium	20		2.5	0.15	mg/Kg			04/04/22 11:23	1
Manganese	280		0.75	0.052	mg/Kg			04/04/22 11:23	1
Molybdenum	ND		2.0	0.082	mg/Kg			04/04/22 11:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52000		100	16	mg/Kg	☆	03/22/22 08:00	04/01/22 12:34	10
Arsenic	1.3	B	0.50	0.13	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Cobalt	3.6	J	5.0	0.052	mg/Kg	☆	03/22/22 08:00	04/01/22 13:35	2
Iron	11000		5.0	4.1	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Lithium	19		2.5	0.15	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Manganese	280		0.75	0.11	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Molybdenum	0.083	J	2.0	0.082	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1

Default Detection Limits

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Prep: 3010A

SEP: Exchangeable

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.031	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Prep: 3010A

SEP: Carbonate

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.063	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.28	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Prep: 3010A

SEP: Non-Crystalline

Analyte	RL	MDL	Units
Aluminum	10	2.1	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.027	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Prep: 3010A

SEP: Metal Hydroxide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.22	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.053	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.13	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

Eurofins Knoxville

Default Detection Limits

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Aluminum	30	4.7	mg/Kg
Arsenic	1.5	0.38	mg/Kg
Boron	30	30	mg/Kg
Cobalt	7.5	0.12	mg/Kg
Iron	15	8.8	mg/Kg
Lithium	7.5	0.44	mg/Kg
Manganese	2.3	0.37	mg/Kg
Molybdenum	6.0	0.25	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 6

SEP: Acid/Sulfide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.15	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.046	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.25	mg/Kg
Molybdenum	2.0	0.099	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Prep: Residual

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.11	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Cobalt	2.5	0.023	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.052	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

Method: 6010B - SEP Metals (ICP) - Total

Prep: Total

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg

Default Detection Limits

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B - SEP Metals (ICP) - Total (Continued)

Prep: Total

Analyte	RL	MDL	Units
Manganese	0.75	0.11	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

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QC Sample Results

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-59914/3-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59914

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		10	1.6	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Arsenic	0.317	J	0.50	0.13	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Cobalt	ND		2.5	0.026	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Iron	ND		5.0	4.1	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Lithium	ND		2.5	0.15	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Manganese	ND		0.75	0.11	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/22/22 08:00	04/01/22 11:45	1

Lab Sample ID: LCS 140-59914/4-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.00	5.49		mg/Kg		110	80 - 120
Cobalt	5.00	5.25		mg/Kg		105	80 - 125
Iron	50.0	52.8		mg/Kg		106	80 - 120
Lithium	5.00	5.17		mg/Kg		103	80 - 120
Manganese	5.00	5.32		mg/Kg		106	80 - 120
Molybdenum	25.0	27.4		mg/Kg		110	80 - 125

Lab Sample ID: LCSD 140-59914/5-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59914

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Aluminum	100	97.5		mg/Kg		98	80 - 120	3	30
Arsenic	5.00	5.25		mg/Kg		105	80 - 120	4	30
Cobalt	5.00	5.09		mg/Kg		102	80 - 125	3	30
Iron	50.0	52.6		mg/Kg		105	80 - 120	1	30
Lithium	5.00	5.06		mg/Kg		101	80 - 120	2	30
Manganese	5.00	5.21		mg/Kg		104	80 - 120	2	30
Molybdenum	25.0	26.6		mg/Kg		106	80 - 125	3	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Total/NA
Prep Batch: 59914

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Aluminum	52000		56100		mg/Kg	✱	8	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Total/NA
Prep Batch: 59914

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	1.3	B	1.28		mg/Kg	✱	4	30
Iron	11000		12400		mg/Kg	✱	9	30
Lithium	19		22.0		mg/Kg	✱	14	30

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QC Sample Results

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B - SEP Metals (ICP) - Total (Continued)

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Total/NA
Prep Batch: 59914

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	280		316		mg/Kg	☼	12	30
Molybdenum	0.083	J	ND		mg/Kg	☼	NC	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Total/NA
Prep Batch: 59914

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cobalt	3.6	J	3.92	J	mg/Kg	☼	10	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-59915/3-B ^4
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 59968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Arsenic	ND		2.0	0.52	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Boron	ND		40	40	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Cobalt	ND		10	0.18	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Iron	ND		20	12	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Lithium	ND		10	0.60	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Manganese	ND		3.0	0.12	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Molybdenum	ND		8.0	0.33	mg/Kg		03/23/22 08:00	03/31/22 12:41	4

Lab Sample ID: LCS 140-59915/4-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 59968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	100		mg/Kg		100	80 - 120
Arsenic	5.00	4.96		mg/Kg		99	80 - 120
Boron	50.0	50.5		mg/Kg		101	
Cobalt	5.00	5.04	J	mg/Kg		101	80 - 120
Iron	50.0	51.3		mg/Kg		103	80 - 120
Lithium	5.00	5.04	J	mg/Kg		101	80 - 120
Manganese	5.00	5.23		mg/Kg		105	80 - 120
Molybdenum	25.0	25.1		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 140-59915/5-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 59968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aluminum	100	106		mg/Kg		106	80 - 120	5	30
Arsenic	5.00	5.27		mg/Kg		105	80 - 120	6	30
Boron	50.0	51.9		mg/Kg		104		3	
Cobalt	5.00	5.22	J	mg/Kg		104	80 - 120	4	30
Iron	50.0	53.7		mg/Kg		107	80 - 120	5	30

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-59915/5-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 59968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	5.00	5.22	J	mg/Kg		104	80 - 120	3	30
Manganese	5.00	5.39		mg/Kg		108	80 - 120	3	30
Molybdenum	25.0	25.9		mg/Kg		104	80 - 120	3	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 1
Prep Batch: 59968

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		mg/Kg	⊛	NC	30
Arsenic	ND		ND		mg/Kg	⊛	NC	30
Boron	ND		ND		mg/Kg	⊛	NC	
Cobalt	ND		ND		mg/Kg	⊛	NC	30
Iron	ND		ND		mg/Kg	⊛	NC	30
Lithium	ND		ND		mg/Kg	⊛	NC	30
Manganese	2.0	J	1.93	J	mg/Kg	⊛	5	30
Molybdenum	ND		ND		mg/Kg	⊛	NC	30

Lab Sample ID: MB 140-59969/3-B ^3
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 60022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Arsenic	ND		1.5	0.39	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Boron	ND		30	30	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Cobalt	ND		7.5	0.19	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Iron	ND		15	8.7	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Lithium	ND		7.5	0.45	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Manganese	ND		2.3	0.84	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Molybdenum	ND		6.0	0.25	mg/Kg		03/24/22 08:00	03/31/22 13:20	3

Lab Sample ID: LCS 140-59969/4-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 60022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	ND		mg/Kg		-2	
Arsenic	5.00	3.95		mg/Kg		79	60 - 120
Boron	50.0	ND		mg/Kg		94	
Cobalt	5.00	4.76	J	mg/Kg		95	80 - 120
Iron	50.0	ND		mg/Kg		2	
Lithium	5.00	4.68	J	mg/Kg		94	80 - 120
Manganese	5.00	4.92		mg/Kg		98	80 - 120
Molybdenum	25.0	21.3		mg/Kg		85	70 - 120

QC Sample Results

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCSD 140-59969/5-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 60022

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	ND		mg/Kg		-0.9		52	
Arsenic	5.00	3.63		mg/Kg		73	60 - 120	8	30
Boron	50.0	ND		mg/Kg		92		2	
Cobalt	5.00	4.67	J	mg/Kg		93	80 - 120	2	30
Iron	50.0	ND		mg/Kg		2		28	
Lithium	5.00	4.63	J	mg/Kg		93	80 - 120	1	30
Manganese	5.00	4.87		mg/Kg		97	80 - 120	1	30
Molybdenum	25.0	21.0		mg/Kg		84	70 - 120	1	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 2
Prep Batch: 60022

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		5.02	J	mg/Kg	☼	NC	
Arsenic	ND		ND		mg/Kg	☼	NC	30
Boron	ND		ND		mg/Kg	☼	NC	
Cobalt	ND		ND		mg/Kg	☼	NC	30
Iron	ND		ND		mg/Kg	☼	NC	
Lithium	ND		ND		mg/Kg	☼	NC	30
Manganese	2.8		3.46		mg/Kg	☼	22	30
Molybdenum	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 140-60023/3-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 60073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	2.1	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Arsenic	ND		0.50	0.13	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Boron	ND		10	10	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Cobalt	ND		2.5	0.045	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Iron	ND		5.0	2.9	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Lithium	ND		2.5	0.15	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Manganese	0.0940	J	0.75	0.027	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/25/22 08:00	03/31/22 14:00	1

Lab Sample ID: LCS 140-60023/4-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 60073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	99.3		mg/Kg		99	80 - 120
Arsenic	5.00	5.05		mg/Kg		101	80 - 120
Boron	50.0	50.8		mg/Kg		102	
Cobalt	5.00	5.16		mg/Kg		103	80 - 120
Iron	50.0	53.1		mg/Kg		106	80 - 120
Lithium	5.00	5.07		mg/Kg		101	80 - 120
Manganese	5.00	5.21		mg/Kg		104	80 - 120

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-60023/4-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 60073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	25.0	25.6		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 140-60023/5-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 60073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	98.4		mg/Kg		98	80 - 120	1	30
Arsenic	5.00	5.03		mg/Kg		101	80 - 120	0	30
Boron	50.0	50.5		mg/Kg		101		1	
Cobalt	5.00	5.13		mg/Kg		103	80 - 120	1	30
Iron	50.0	52.8		mg/Kg		106	80 - 120	1	30
Lithium	5.00	5.03		mg/Kg		101	80 - 120	1	30
Manganese	5.00	5.14		mg/Kg		103	80 - 120	1	30
Molybdenum	25.0	25.7		mg/Kg		103	80 - 120	1	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 3
Prep Batch: 60073

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	19		18.9		mg/Kg	✱	0.6	30
Arsenic	ND		ND		mg/Kg	✱	NC	30
Boron	ND		ND		mg/Kg	✱	NC	
Cobalt	0.13	J	0.145	J	mg/Kg	✱	11	30
Iron	15		17.5		mg/Kg	✱	13	30
Lithium	ND		ND		mg/Kg	✱	NC	30
Manganese	12	B	17.5	F3	mg/Kg	✱	34	30
Molybdenum	ND		ND		mg/Kg	✱	NC	30

Lab Sample ID: MB 140-60074/3-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 60125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Arsenic	ND		0.50	0.22	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Boron	ND		10	10	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Cobalt	ND		2.5	0.053	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Iron	ND		5.0	2.9	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Lithium	ND		2.5	0.15	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Manganese	ND		0.75	0.13	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/26/22 08:00	03/31/22 14:40	1

Lab Sample ID: LCS 140-60074/4-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 60125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	101		mg/Kg		101	80 - 120

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-60074/4-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 60125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.00	5.20		mg/Kg		104	80 - 130
Boron	50.0	50.7		mg/Kg		101	
Cobalt	5.00	5.24		mg/Kg		105	80 - 120
Iron	50.0	52.7		mg/Kg		105	80 - 120
Lithium	5.00	5.15		mg/Kg		103	80 - 120
Manganese	5.00	5.26		mg/Kg		105	80 - 120
Molybdenum	25.0	26.9		mg/Kg		108	80 - 120

Lab Sample ID: LCSD 140-60074/5-B
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 60125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	101		mg/Kg		101	80 - 120	1	30
Arsenic	5.00	5.33		mg/Kg		107	80 - 130	3	30
Boron	50.0	51.4		mg/Kg		103		1	
Cobalt	5.00	5.36		mg/Kg		107	80 - 120	2	30
Iron	50.0	53.8		mg/Kg		108	80 - 120	2	30
Lithium	5.00	5.23		mg/Kg		105	80 - 120	2	30
Manganese	5.00	5.34		mg/Kg		107	80 - 120	1	30
Molybdenum	25.0	27.3		mg/Kg		109	80 - 120	1	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 4
Prep Batch: 60125

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	460		445		mg/Kg	✖	2	30
Arsenic	ND		ND		mg/Kg	✖	NC	30
Boron	ND		ND		mg/Kg	✖	NC	
Cobalt	0.31	J	0.300	J	mg/Kg	✖	2	30
Iron	740		730		mg/Kg	✖	2	30
Lithium	0.82	J	0.861	J	mg/Kg	✖	4	30
Manganese	17		18.6		mg/Kg	✖	6	30
Molybdenum	ND		ND		mg/Kg	✖	NC	30

Lab Sample ID: MB 140-60126/3-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 60152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		150	24	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Arsenic	ND		7.5	1.9	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Boron	ND		150	150	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Cobalt	ND		38	0.60	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Iron	ND		75	44	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Lithium	ND		38	2.2	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Manganese	ND		11	1.9	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Molybdenum	ND		30	1.3	mg/Kg		03/28/22 08:00	03/31/22 15:18	5

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-60126/4-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 60152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	300	ND		mg/Kg		7	
Arsenic	15.0	10.3		mg/Kg		69	60 - 100
Boron	150	159		mg/Kg		106	
Cobalt	15.0	ND		mg/Kg		3	1 - 60
Iron	150	ND		mg/Kg		0.9	
Lithium	15.0	16.2	J	mg/Kg		108	80 - 150
Manganese	15.0	3.29	J	mg/Kg		22	1 - 60
Molybdenum	75.0	59.0		mg/Kg		79	60 - 100

Lab Sample ID: LCSD 140-60126/5-B ^5
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 60152

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	300	ND		mg/Kg		2		96	
Arsenic	15.0	10.0		mg/Kg		67	60 - 100	2	30
Boron	150	160		mg/Kg		107		0	
Cobalt	15.0	ND		mg/Kg		2	1 - 60	19	30
Iron	150	ND		mg/Kg		0.9		1	
Lithium	15.0	16.2	J	mg/Kg		108	80 - 150	0	30
Manganese	15.0	3.79	J	mg/Kg		25	1 - 60	14	30
Molybdenum	75.0	59.4		mg/Kg		79	60 - 100	1	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 5
Prep Batch: 60152

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	96	J	94.5	J	mg/Kg	✱	1	
Arsenic	ND		ND		mg/Kg	✱	NC	30
Boron	ND		ND		mg/Kg	✱	NC	
Cobalt	ND		ND		mg/Kg	✱	NC	30
Iron	ND		ND		mg/Kg	✱	NC	
Lithium	ND		ND		mg/Kg	✱	NC	30
Manganese	ND		ND		mg/Kg	✱	NC	30
Molybdenum	ND		ND		mg/Kg	✱	NC	30

Lab Sample ID: MB 140-60153/3-A
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 60153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Arsenic	ND		0.50	0.15	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Boron	ND		10	10	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Cobalt	ND		2.5	0.046	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Iron	ND		5.0	2.9	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Lithium	ND		2.5	0.15	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Manganese	ND		0.75	0.25	mg/Kg		03/28/22 08:00	03/31/22 16:05	1

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-60153/3-A
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 60153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		2.0	0.099	mg/Kg		03/28/22 08:00	03/31/22 16:05	1

Lab Sample ID: LCS 140-60153/4-A
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 60153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	103		mg/Kg		103	80 - 120
Arsenic	5.00	5.50		mg/Kg		110	80 - 120
Boron	50.0	56.3		mg/Kg		113	
Cobalt	5.00	5.35		mg/Kg		107	80 - 120
Iron	50.0	53.0		mg/Kg		106	80 - 120
Lithium	5.00	5.27		mg/Kg		105	80 - 120
Manganese	5.00	5.36		mg/Kg		107	80 - 120
Molybdenum	25.0	26.7		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 140-60153/5-A
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 60153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	103		mg/Kg		103	80 - 120	0	30
Arsenic	5.00	5.44		mg/Kg		109	80 - 120	1	30
Boron	50.0	57.0		mg/Kg		114		1	
Cobalt	5.00	5.35		mg/Kg		107	80 - 120	0	30
Iron	50.0	53.7		mg/Kg		107	80 - 120	1	30
Lithium	5.00	5.27		mg/Kg		105	80 - 120	0	30
Manganese	5.00	5.41		mg/Kg		108	80 - 120	1	30
Molybdenum	25.0	26.8		mg/Kg		107	80 - 120	0	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60317

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 6
Prep Batch: 60153

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	4700		5210		mg/Kg	⊛	10	30
Arsenic	0.69		0.377	J F5	mg/Kg	⊛	59	30
Boron	ND		ND		mg/Kg	⊛	NC	
Cobalt	2.9		3.21		mg/Kg	⊛	10	30
Iron	6700		7480		mg/Kg	⊛	11	30
Lithium	13		14.4		mg/Kg	⊛	10	30
Manganese	150		175		mg/Kg	⊛	13	30
Molybdenum	ND		ND		mg/Kg	⊛	NC	30

Lab Sample ID: MB 140-60194/3-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 60194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		03/29/22 08:00	04/01/22 11:30	1

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: MB 140-60194/3-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 60194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.326	J	0.50	0.13	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Cobalt	ND		2.5	0.026	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Iron	ND		5.0	4.1	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Lithium	ND		2.5	0.15	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Manganese	ND		0.75	0.11	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/29/22 08:00	04/01/22 11:30	1

Lab Sample ID: LCS 140-60194/4-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 60194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	99.8		mg/Kg		100	80 - 120
Arsenic	5.00	5.49		mg/Kg		110	80 - 120
Cobalt	5.00	5.20		mg/Kg		104	80 - 125
Iron	50.0	52.4		mg/Kg		105	80 - 120
Lithium	5.00	5.15		mg/Kg		103	80 - 120
Manganese	5.00	5.35		mg/Kg		107	80 - 120
Molybdenum	25.0	27.1		mg/Kg		108	80 - 125

Lab Sample ID: LCSD 140-60194/5-A
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 60194

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	99.7		mg/Kg		100	80 - 120	0	30
Arsenic	5.00	5.47		mg/Kg		109	80 - 120	0	30
Cobalt	5.00	5.26		mg/Kg		105	80 - 125	1	30
Iron	50.0	52.5		mg/Kg		105	80 - 120	0	30
Lithium	5.00	5.19		mg/Kg		104	80 - 120	1	30
Manganese	5.00	5.35		mg/Kg		107	80 - 120	0	30
Molybdenum	25.0	27.3		mg/Kg		109	80 - 125	1	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 7
Prep Batch: 60194

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	52000		50800		mg/Kg	⊛	3	30

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 7
Prep Batch: 60194

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.76	B	0.753		mg/Kg	⊛	1	30
Cobalt	0.50	J	0.114	J F5	mg/Kg	⊛	125	30
Iron	3700		2810		mg/Kg	⊛	29	30
Lithium	6.0		3.86	F5	mg/Kg	⊛	43	30
Manganese	89		72.1		mg/Kg	⊛	21	30

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QC Sample Results

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')
Prep Type: Step 7
Prep Batch: 60194

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Molybdenum	ND		0.105	J	mg/Kg	✱	NC	30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Metals

Prep Batch: 59914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	Total	
MB 140-59914/3-A	Method Blank	Total/NA	Solid	Total	
LCS 140-59914/4-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-59914/5-A	Lab Control Sample Dup	Total/NA	Solid	Total	
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	Total	

SEP Batch: 59915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 1	Solid	Exchangeable	
MB 140-59915/3-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-59915/4-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-59915/5-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	
140-26651-1 DU	B-117D (52-52.5')	Step 1	Solid	Exchangeable	

Prep Batch: 59968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 1	Solid	3010A	59915
MB 140-59915/3-B ^4	Method Blank	Step 1	Solid	3010A	59915
LCS 140-59915/4-B ^5	Lab Control Sample	Step 1	Solid	3010A	59915
LCSD 140-59915/5-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	59915
140-26651-1 DU	B-117D (52-52.5')	Step 1	Solid	3010A	59915

SEP Batch: 59969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 2	Solid	Carbonate	
MB 140-59969/3-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-59969/4-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-59969/5-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	
140-26651-1 DU	B-117D (52-52.5')	Step 2	Solid	Carbonate	

Prep Batch: 60022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 2	Solid	3010A	59969
MB 140-59969/3-B ^3	Method Blank	Step 2	Solid	3010A	59969
LCS 140-59969/4-B ^5	Lab Control Sample	Step 2	Solid	3010A	59969
LCSD 140-59969/5-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	59969
140-26651-1 DU	B-117D (52-52.5')	Step 2	Solid	3010A	59969

SEP Batch: 60023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 3	Solid	Non-Crystalline	
MB 140-60023/3-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-60023/4-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-60023/5-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	
140-26651-1 DU	B-117D (52-52.5')	Step 3	Solid	Non-Crystalline	

Prep Batch: 60073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 3	Solid	3010A	60023
MB 140-60023/3-B	Method Blank	Step 3	Solid	3010A	60023
LCS 140-60023/4-B	Lab Control Sample	Step 3	Solid	3010A	60023

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QC Association Summary

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Metals (Continued)

Prep Batch: 60073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-60023/5-B	Lab Control Sample Dup	Step 3	Solid	3010A	60023
140-26651-1 DU	B-117D (52-52.5')	Step 3	Solid	3010A	60023

SEP Batch: 60074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 4	Solid	Metal Hydroxide	
MB 140-60074/3-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-60074/4-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-60074/5-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	
140-26651-1 DU	B-117D (52-52.5')	Step 4	Solid	Metal Hydroxide	

Prep Batch: 60125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 4	Solid	3010A	60074
MB 140-60074/3-B	Method Blank	Step 4	Solid	3010A	60074
LCS 140-60074/4-B	Lab Control Sample	Step 4	Solid	3010A	60074
LCSD 140-60074/5-B	Lab Control Sample Dup	Step 4	Solid	3010A	60074
140-26651-1 DU	B-117D (52-52.5')	Step 4	Solid	3010A	60074

SEP Batch: 60126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 5	Solid	Organic-Bound	
MB 140-60126/3-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-60126/4-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-60126/5-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	
140-26651-1 DU	B-117D (52-52.5')	Step 5	Solid	Organic-Bound	

Prep Batch: 60152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 5	Solid	3010A	60126
MB 140-60126/3-B ^5	Method Blank	Step 5	Solid	3010A	60126
LCS 140-60126/4-B ^5	Lab Control Sample	Step 5	Solid	3010A	60126
LCSD 140-60126/5-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	60126
140-26651-1 DU	B-117D (52-52.5')	Step 5	Solid	3010A	60126

SEP Batch: 60153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 6	Solid	Acid/Sulfide	
MB 140-60153/3-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-60153/4-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-60153/5-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	
140-26651-1 DU	B-117D (52-52.5')	Step 6	Solid	Acid/Sulfide	

Prep Batch: 60194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 7	Solid	Residual	
MB 140-60194/3-A	Method Blank	Step 7	Solid	Residual	
LCS 140-60194/4-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-60194/5-A	Lab Control Sample Dup	Step 7	Solid	Residual	
140-26651-1 DU	B-117D (52-52.5')	Step 7	Solid	Residual	

QC Association Summary

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Metals

Analysis Batch: 60317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 1	Solid	6010B SEP	59968
140-26651-1	B-117D (52-52.5')	Step 2	Solid	6010B SEP	60022
140-26651-1	B-117D (52-52.5')	Step 3	Solid	6010B SEP	60073
140-26651-1	B-117D (52-52.5')	Step 4	Solid	6010B SEP	60125
140-26651-1	B-117D (52-52.5')	Step 5	Solid	6010B SEP	60152
140-26651-1	B-117D (52-52.5')	Step 6	Solid	6010B SEP	60153
MB 140-59915/3-B ^4	Method Blank	Step 1	Solid	6010B SEP	59968
MB 140-59969/3-B ^3	Method Blank	Step 2	Solid	6010B SEP	60022
MB 140-60023/3-B	Method Blank	Step 3	Solid	6010B SEP	60073
MB 140-60074/3-B	Method Blank	Step 4	Solid	6010B SEP	60125
MB 140-60126/3-B ^5	Method Blank	Step 5	Solid	6010B SEP	60152
MB 140-60153/3-A	Method Blank	Step 6	Solid	6010B SEP	60153
LCS 140-59915/4-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	59968
LCS 140-59969/4-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	60022
LCS 140-60023/4-B	Lab Control Sample	Step 3	Solid	6010B SEP	60073
LCS 140-60074/4-B	Lab Control Sample	Step 4	Solid	6010B SEP	60125
LCS 140-60126/4-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	60152
LCS 140-60153/4-A	Lab Control Sample	Step 6	Solid	6010B SEP	60153
LCSD 140-59915/5-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	59968
LCSD 140-59969/5-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	60022
LCSD 140-60023/5-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	60073
LCSD 140-60074/5-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	60125
LCSD 140-60126/5-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	60152
LCSD 140-60153/5-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	60153
140-26651-1 DU	B-117D (52-52.5')	Step 1	Solid	6010B SEP	59968
140-26651-1 DU	B-117D (52-52.5')	Step 2	Solid	6010B SEP	60022
140-26651-1 DU	B-117D (52-52.5')	Step 3	Solid	6010B SEP	60073
140-26651-1 DU	B-117D (52-52.5')	Step 4	Solid	6010B SEP	60125
140-26651-1 DU	B-117D (52-52.5')	Step 5	Solid	6010B SEP	60152
140-26651-1 DU	B-117D (52-52.5')	Step 6	Solid	6010B SEP	60153

Analysis Batch: 60348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
MB 140-59914/3-A	Method Blank	Total/NA	Solid	6010B	59914
MB 140-60194/3-A	Method Blank	Step 7	Solid	6010B SEP	60194
LCS 140-59914/4-A	Lab Control Sample	Total/NA	Solid	6010B	59914
LCS 140-60194/4-A	Lab Control Sample	Step 7	Solid	6010B SEP	60194
LCSD 140-59914/5-A	Lab Control Sample Dup	Total/NA	Solid	6010B	59914
LCSD 140-60194/5-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	60194
140-26651-1 DU	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1 DU	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	6010B	59914

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Metals

Analysis Batch: 60414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Sum of Steps 1-7	Solid	6010B SEP	

General Chemistry

Analysis Batch: 59970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	Moisture	
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: B-117D (52-52.5')
Date Collected: 12/08/21 10:19
Date Received: 01/12/22 10:00

Lab Sample ID: 140-26651-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			60414	04/04/22 11:23	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			59970	03/22/22 14:11	ACW	TAL KNX
	Instrument ID: NOEQUIP									

Client Sample ID: B-117D (52-52.5')
Date Collected: 12/08/21 10:19
Date Received: 01/12/22 10:00

Lab Sample ID: 140-26651-1
Matrix: Solid
Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			60348	04/01/22 12:34	JGT	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 13:14	JGT	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			60348	04/01/22 13:35	JGT	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			60317	03/31/22 12:55	JGT	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			60317	03/31/22 13:35	JGT	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:15	JGT	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:54	JGT	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:34	JGT	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:19	JGT	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			60348	04/01/22 12:19	JGT	TAL KNX
	Instrument ID: DUO									

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: B-117D (52-52.5')

Lab Sample ID: 140-26651-1

Date Collected: 12/08/21 10:19

Matrix: Solid

Date Received: 01/12/22 10:00

Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 12:49	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-59914/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 11:45	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-59915/3-B ^4

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			60317	03/31/22 12:41	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-59969/3-B ^3

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			60317	03/31/22 13:20	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-60023/3-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:00	JGT	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: Method Blank

Lab Sample ID: MB 140-60074/3-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:40	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-60126/3-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:18	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-60153/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:05	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-60194/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 11:30	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-59914/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 11:50	JGT	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-59915/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			60317	03/31/22 12:46	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-59969/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			60317	03/31/22 13:25	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-60023/4-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:05	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-60074/4-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:45	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-60126/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:23	JGT	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-60153/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:10	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-60194/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 11:35	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-59914/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 11:55	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-59915/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			60317	03/31/22 12:50	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-59969/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			60317	03/31/22 13:30	JGT	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-60023/5-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:10	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-60074/5-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:49	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-60126/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:28	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-60153/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:15	JGT	TAL KNX
Instrument ID: DUO										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-60194/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 11:40	JGT	TAL KNX
Instrument ID: DUO										

Lab Chronicle

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Client Sample ID: B-117D (52-52.5')
Date Collected: 12/08/21 10:19
Date Received: 01/12/22 10:00

Lab Sample ID: 140-26651-1 DU
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			59970	03/22/22 14:11	ACW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: B-117D (52-52.5')
Date Collected: 12/08/21 10:19
Date Received: 01/12/22 10:00

Lab Sample ID: 140-26651-1 DU
Matrix: Solid
Percent Solids: 99.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			60348	04/01/22 12:39	JGT	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 13:20	JGT	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			60348	04/01/22 13:40	JGT	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			60317	03/31/22 13:00	JGT	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			60317	03/31/22 13:40	JGT	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:20	JGT	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:59	JGT	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:39	JGT	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:24	JGT	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			60348	04/01/22 12:24	JGT	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 12:54	JGT	TAL KNX
Instrument ID: DUO										

Eurofins Knoxville

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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Accreditation/Certification Summary

Client: Golder Associates Inc.
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Laboratory: Eurofins Knoxville

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	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-22
California	State	2423	06-30-22
Colorado	State	TN00009	02-28-23
Connecticut	State	PH-0223	09-30-23
Florida	NELAP	E87177	06-30-22
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-22
Kansas	NELAP	E-10349	10-31-22
Kentucky (DW)	State	90101	12-31-22
Louisiana	NELAP	83979	06-30-22
Louisiana (DW)	State	LA019	12-31-22
Maryland	State	277	03-31-22 *
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-22
New Hampshire	NELAP	299919	01-17-23
New Jersey	NELAP	TN001	06-30-22
New York	NELAP	10781	03-31-22 *
North Carolina (DW)	State	21705	07-31-22
North Carolina (WW/SW)	State	64	12-31-22
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-22
Oregon	NELAP	TNI0189	12-31-22
Pennsylvania	NELAP	68-00576	12-31-22
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-22
Virginia	NELAP	460176	09-14-22
Washington	State	C593	01-19-23
West Virginia (DW)	State	9955C	12-31-22
West Virginia DEP	State	345	04-30-23
Wisconsin	State	998044300	08-31-22

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

Method Summary

Client: Golder Associates Inc.
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
Moisture	Percent Moisture	EPA	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

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

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Chain of Custody Record



TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: Dawn Prell		Site Contact: Dawn Prell		Date:		COC No:	
Joju Abraham		Email: dprell@golder.com		Lab Contact:		Carrier:		1 of 1 COCs	
Southern Company		Tel/Fax: 248-536-5445		Perform MS / MSD (Y / N)				TALS Project #:	
241 Ralph McGill Blvd SE B10185		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		6010B - 7 Step SEP: As, Mo, Li				Sampler:	
Atlanta, GA 30308		TAT if different from Below		6010B - 6 Step SEP: Boron				For Lab Use Only:	
Jabraham@southernco.com		<input type="checkbox"/> 2 weeks		X				Walk-in Client:	
Project Name: 166849621		<input type="checkbox"/> 1 week		X				Lab Sampling:	
Site: Plant McDonough		<input type="checkbox"/> 2 days						Job / SDG No.:	
P O #		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
B-117D (52-52.5)		12/8/2021	10:19	G	SL	1	Samples to be ground before analysis		
							KMC @ amendment 20.3 20.2		
							no custody seal		
							1 box PD 012.22		
							KMC ex# 2884 9094 1063		



140-26651 Chain of Custody

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 Poison B Unknown

Special Instructions/QC Requirements & Comments:

Samples to be ground before analysis

Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Therm ID No.:
Relinquished by: <i>[Signature]</i>	Company: <i>Golder Associates</i>	Date/Time: <i>1-7-22 11:13</i>
Relinquished by: <i>[Signature]</i>	Company: <i>ETA KLV</i>	Date/Time: <i>01/22 10:06</i>
Relinquished by:	Company:	Date/Time:



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	10
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?			/	<input type="checkbox"/> Yes <input type="checkbox"/> NA	H
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : 54-71 Correction factor: -0.01°C	X 5/12/22	/		<input checked="" type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?		/		<input checked="" type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	pH test strip lot number: _____
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			/		
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	
Project #: _____				PM Instructions: _____	

Sample Receiving Associate: *[Signature]* Date: 01.12.22

QA026R32.doc, 062719





Analysis Report

GS22-01437

F402001 SGS LAKEFIELD RESEARCH
 PO BOX 4300
 185 CONCESSION STREET
 LAKEFIELD, ONTARIO ON K0L 2H0
 CANADA

Received : 16-May-2022
 Completed : 19-May-2022
 Order Reference : Kim Gibbs - Katie Brock - MI5010-May22

Laboratory ID:	GS22-01437.009	GS22-01437.010
Client Sample #:	B-123D-27-28'	B-123D-145'
Description:		

CEC Actual (meq/100g)	4.59	18.74
-----------------------	------	-------

NOTE:

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

Report File Reference Number: 000220419

Page 3 of 3

**Signed and dated in Guelph, ON
 On 19-May-2022**

For and on behalf of SGS Canada Inc., Agriculture and Food

**Jack Legg, CCA-ON, 4R NMS
 Branch Manager, Agronomist**

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Analysis Report

GS22-01437

F402001 SGS LAKEFIELD RESEARCH
 PO BOX 4300
 185 CONCESSION STREET
 LAKEFIELD, ONTARIO ON K0L 2H0
 CANADA

Received : 16-May-2022
 Completed : 19-May-2022
 Order Reference : Kim Gibbs - Katie Brock - MI5010-May22

Laboratory ID:	GS22-01437.005	GS22-01437.006	GS22-01437.007	GS22-01437.008
Client Sample #:	B-4D-23-24'	DGWC-121-49-50'	DGWC-121-38-40'	B-122D-39-40'
Description:				
CEC Actual (meq/100g)	9.77	10.64	5.06	6.92

NOTE:

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

Report File Reference Number: 0000220419

Page 2 of 3

**Signed and dated in Guelph, ON
 On 19-May-2022**

For and on behalf of SGS Canada Inc., Agriculture and Food

**Jack Legg, CCA-ON, 4R NMS
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Analysis Report

GS22-01437

F402001 SGS LAKEFIELD RESEARCH
 PO BOX 4300
 185 CONCESSION STREET
 LAKEFIELD, ONTARIO ON K0L 2H0
 CANADA

Received : 16-May-2022
 Completed : 19-May-2022
 Order Reference : Kim Gibbs - Katie Brock - MI5010-May22

Laboratory ID:	GS22-01437.001	GS22-01437.002	GS22-01437.003	GS22-01437.004
Client Sample #:	B-113D-19-20'	B-104D-55-56'	B-115D-75-76'	B-47D-11-12'
Description:				
CEC Actual (meq/100g)	5.18	7.14	7.49	7.78

NOTE:

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

Report File Reference Number: 0000220419

Page 1 of 3

**Signed and dated in Guelph, ON
 On 19-May-2022**

For and on behalf of SGS Canada Inc., Agriculture and Food

**Jack Legg, CCA-ON, 4R NMS
 Branch Manager, Agronomist**

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Internal Dept 14

Attn : Kim Gibbs

08-June-2022

Date Rec. : 11 May 2022

LR Report : CA02233-MAY22

Project : CA20I-00000-110-18502-05

Client Ref : MI5010-MAY22

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	TOC %
1: B-113D-19-20'	< 0.05
2: B-104D-55-56'	< 0.05
3: B-115D-75-76'	< 0.05
4: B-47-11-12'	0.06
5: B-48-23-24'	< 0.05
6: DGWC-121-38-40'	< 0.05
7: DGWC-121-49-50'	< 0.05
8: B-122D-39-40'	2.13
9: B-123D-27-28'	< 0.05
10: B-123D-145'	< 0.05

Control Quality Analysis - not suitable for commercial exchange

Sarah Thyret-Arbour

Technologist, Mineral Services, Analytical



Quantitative X-Ray Diffraction by Rietveld Refinement

Report Prepared for: Golder Associates Inc
Project Number/ LIMS No. 18502-05/MI5010-MAY22
Sample Receipt: May 8, 2022
Sample Analysis: May 13, 2022
Reporting Date: June 8, 2022

Instrument: BRUKER AXS D8 Advance Diffractometer
Test Conditions: Co radiation, 35 kV, 40 mA; Detector: LYNXEYE
Regular Scanning: Step: 0.02°, Step time: 0.75s, 2θ range: 6-80°
Interpretations : PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPlus Eva and Topas software.
Detection Limit : 0.5-2%. Strongly dependent on crystallinity.

Contents:
1) Method Summary
2) Quantitative XRD Results
3) XRD Pattern(s)

Kim Gibbs, H.B.Sc., P.Geol.
Senior Mineralogist

Huyun Zhou, Ph.D., P.Geol.
Senior Mineralogist

ACCREDITATION: SGS Natural Resources Lakefield is accredited to the requirements of ISO/IEC 17025 for specific tests as listed on our scope of accreditation, including geochemical, mineralogical and trade mineral tests. To view a list of the accredited methods, please visit the following website and search SGS Canada Inc. - Minerals: <https://www.scc.ca/en/search/palcan>.



Method Summary

The Rietveld Method of Mineral Identification by XRD (ME-LR-MIN-MET-MN-D05) method used by SGS Natural Resources is accredited to the requirements of ISO/IEC 17025.

Mineral Identification and Interpretation:

Mineral identification and interpretation involves matching the diffraction pattern of an unknown 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) database and released on software as Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds, except when internal standards have been added by request. Mineral proportions may be strongly influenced by crystallinity, crystal structure and preferred orientations. Mineral or compound identification and quantitative analysis results should be accompanied by supporting chemical assay data or other additional tests.

Quantitative Rietveld Analysis:

Quantitative Rietveld Analysis is performed by using Topas 4.2 (Bruker AXS), a graphics based profile analysis program built around a non-linear least squares fitting system, to determine the amount of different phases present in a multicomponent sample. Whole pattern analyses are predicated by the fact that the X-ray diffraction pattern is a total sum of both instrumental and specimen factors. Unlike other peak intensity-based methods, the Rietveld method uses a least squares approach to refine a theoretical line profile until it matches the obtained experimental patterns.

Rietveld refinement is completed with a set of minerals specifically identified for the sample. Zero values indicate that the mineral was included in the refinement calculations, but the calculated concentration was less than 0.05wt%. Minerals not identified by the analyst are not included in refinement calculations for specific samples and are indicated with a dash.

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WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Summary of Rietveld Quantitative Analysis X-Ray Diffraction Results

Mineral/Compound	B-113D-19-20'	B-104D-55-56'	B-115D-75-76'	B-47-11-12'	B-48-23-24'
	MAY5010-01 (wt %)	MAY5010-02 (wt %)	MAY5010-03 (wt %)	MAY5010-04 (wt %)	MAY5010-05 (wt %)
Quartz	69.5	32.1	32.8	25.7	45.6
Lizardite	0.6	-	-	-	-
Rutile	0.9	1.6	1.7	1.0	1.4
Magnetite	1.0	-	-	-	-
Muscovite	7.4	12.1	17.1	38.9	1.8
Kaolinite	8.0	-	-	-	-
Pyrite	0.2	-	-	-	-
Hematite	0.3	-	0.2	0.7	-
Phlogopite	6.0	-	-	-	-
Albite	5.4	32.9	28.9	6.1	36.9
Illite-Montmorillonite	0.8	-	-	-	-
Chlorite	-	3.9	6.1	5.0	2.3
Ilmenite	-	0.8	0.7	-	0.5
Biotite	-	10.7	9.8	9.8	7.1
Orthoclase	-	1.9	2.6	3.8	1.4
Diopside	-	3.8	-	5.2	3.0
Stilpnomelane	-	-	-	2.0	-
Magnesite	-	-	-	1.8	-
Actinolite	-	-	-	-	-
Gypsum	-	-	-	-	-
Gibbsite	-	-	-	-	-
Spessartine	-	-	-	-	-
Calcite	-	-	-	-	-
TOTAL	100	100	100	100	100

Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identified by the analyst and not included in the refinement calculation for the sample.

The weight percent quantities indicated have been normalized to a sum of 100%.

The quantity of amorphous material has not been determined.

Summary of Rietveld Quantitative Analysis X-Ray Diffraction Results

Mineral/Compound	DGWC-121-38-40'	DGWC-121-49-50'	B-122D-39-40'	B-123D-27-28'	B-123D-145'
	MAY5010-06 (wt %)	MAY5010-07 (wt %)	MAY5010-08 (wt %)	MAY5010-09 (wt %)	MAY5010-10 (wt %)
Quartz	45.1	45.9	66.2	35.5	37.6
Lizardite	0.9	-	0.8	1.5	-
Rutile	1.2	0.4	-	1.5	0.8
Magnetite	1.9	0.5	0.8	-	-
Muscovite	18.4	10.6	12.1	7.8	0.6
Kaolinite	-	-	-	30.7	-
Pyrite	-	0.2	-	-	-
Hematite	1.4	-	-	-	-
Phlogopite	5.0	10.4	-	5.8	-
Albite	13.1	24.1	4.8	3.2	41.5
Illite-Montmorillonite	-	-	-	3.3	-
Chlorite	5.5	3.0	1.1	-	0.4
Ilmenite	0.7	1.0	-	-	0.8
Biotite	-	-	2.6	-	10.2
Orthoclase	5.4	1.2	5.2	10.1	1.4
Diopside	1.3	2.6	-	0.6	1.7
Stilpnomelane	-	-	2.2	-	-
Magnesite	-	-	-	-	-
Actinolite	-	-	1.0	-	0.9
Gypsum	-	-	0.4	-	-
Gibbsite	-	-	2.9	-	-
Spessartine	-	-	-	-	2.7
Calcite	-	-	-	-	1.5
TOTAL	100	100	100	100	100

Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identified by the analyst and not included in the refinement calculation for the sample.

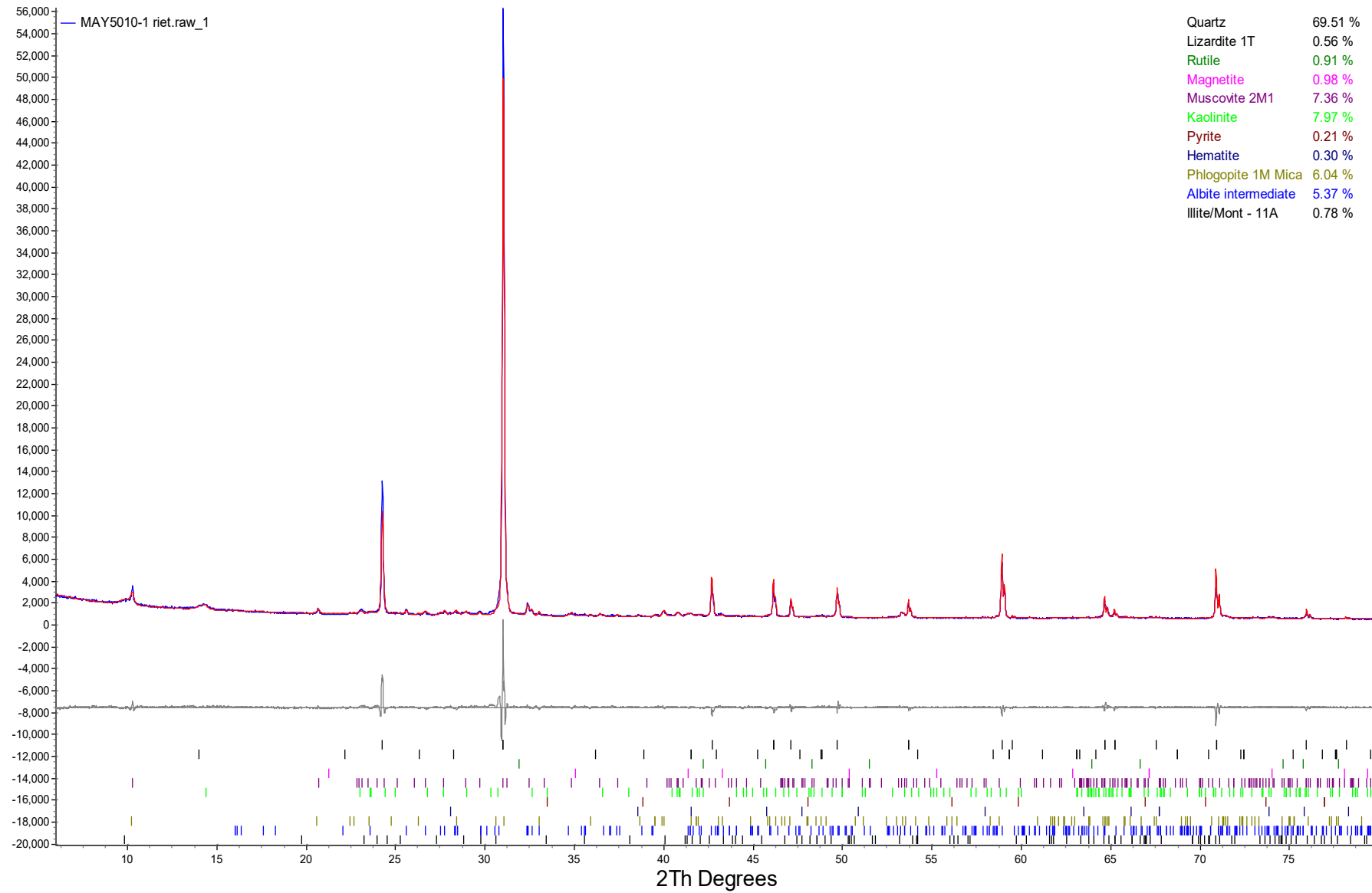
The weight percent quantities indicated have been normalized to a sum of 100%.

The quantity of amorphous material has not been determined.

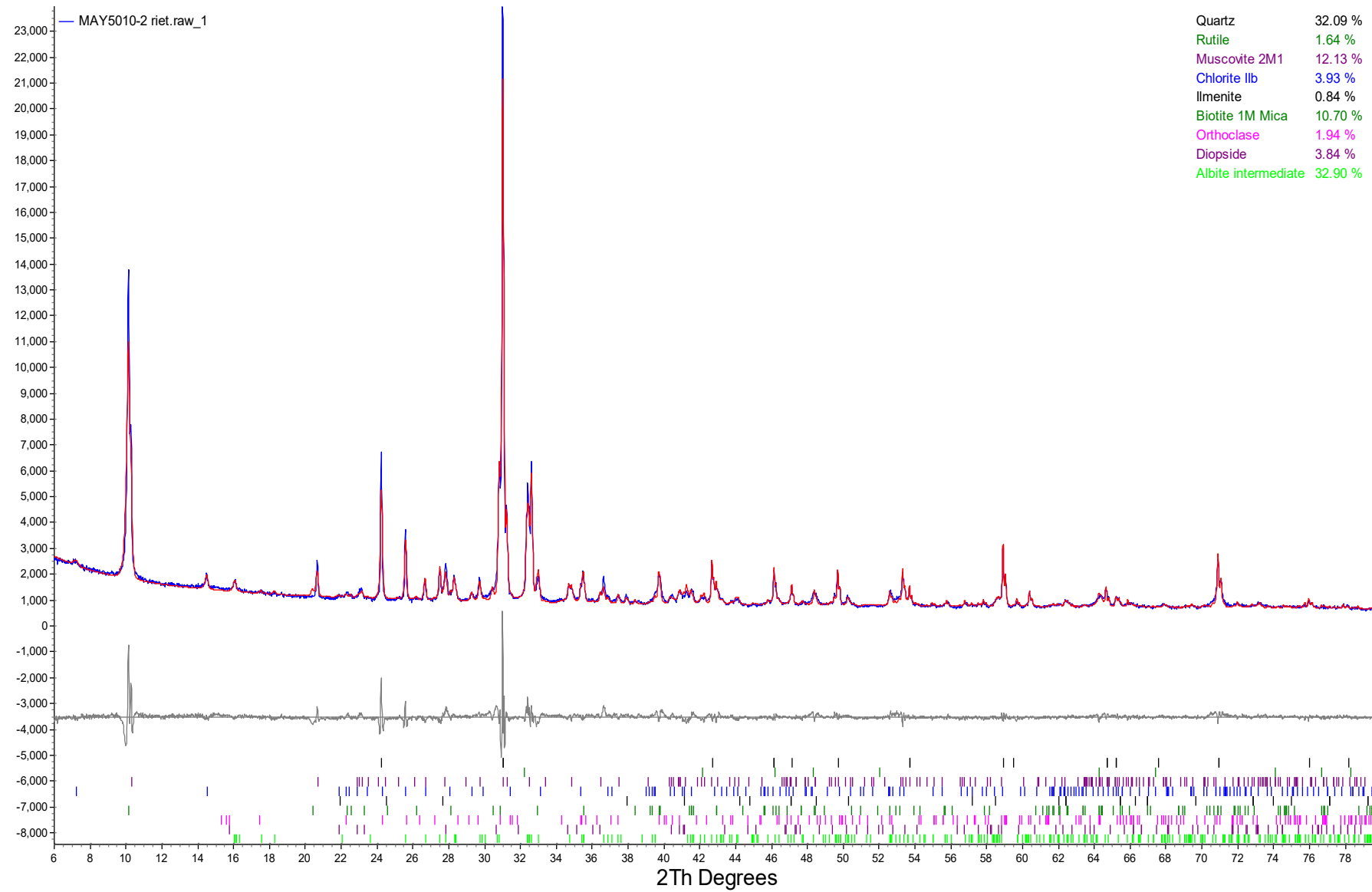
Mineral List

Mineral/Compound	Formula
Quartz	SiO ₂
Lizardite	Mg ₃ Si ₂ O ₅ (OH) ₄
Rutile	TiO ₂
Magnetite	Fe ₃ O ₄
Muscovite	KAl ₂ (AlSi ₃ O ₁₀)(OH) ₂
Kaolinite	Al ₂ Si ₂ O ₅ (OH) ₄
Pyrite	FeS ₂
Hematite	Fe ₂ O ₃
Phlogopite	KMg ₃ (AlSi ₃ O ₁₀)(OH) ₂
Albite	NaAlSi ₃ O ₈
Illite-Montmorillonite	KAl ₄ (Si,Al) ₈ O ₂₀ (OH) ₄ ·8H ₂ O
Chlorite	(Fe,(Mg,Mn) ₅ ,Al)(Si ₃ Al)O ₁₀ (OH) ₈
Ilmenite	FeTiO ₃
Biotite	K(Mg,Fe) ₃ (AlSi ₃ O ₁₀)(OH) ₂
Orthoclase	KAlSi ₃ O ₈
Diopside	CaMgSi ₂ O ₆
Stilpnomelane	K(Fe ²⁺ ,Mg,Fe ³⁺) ₈ (Si,Al) ₁₂ (O,OH) ₂₇ ·n(H ₂ O)
Magnesite	MgCO ₃
Actinolite	Ca ₂ (Mg,Fe) ₅ Si ₈ O ₂₂ (OH) ₂
Gypsum	CaSO ₄ ·2H ₂ O
Gibbsite	Al(OH) ₃
Spessartine	Mn ₃ Al ₂ Si ₃ O ₁₂
Calcite	CaCO ₃

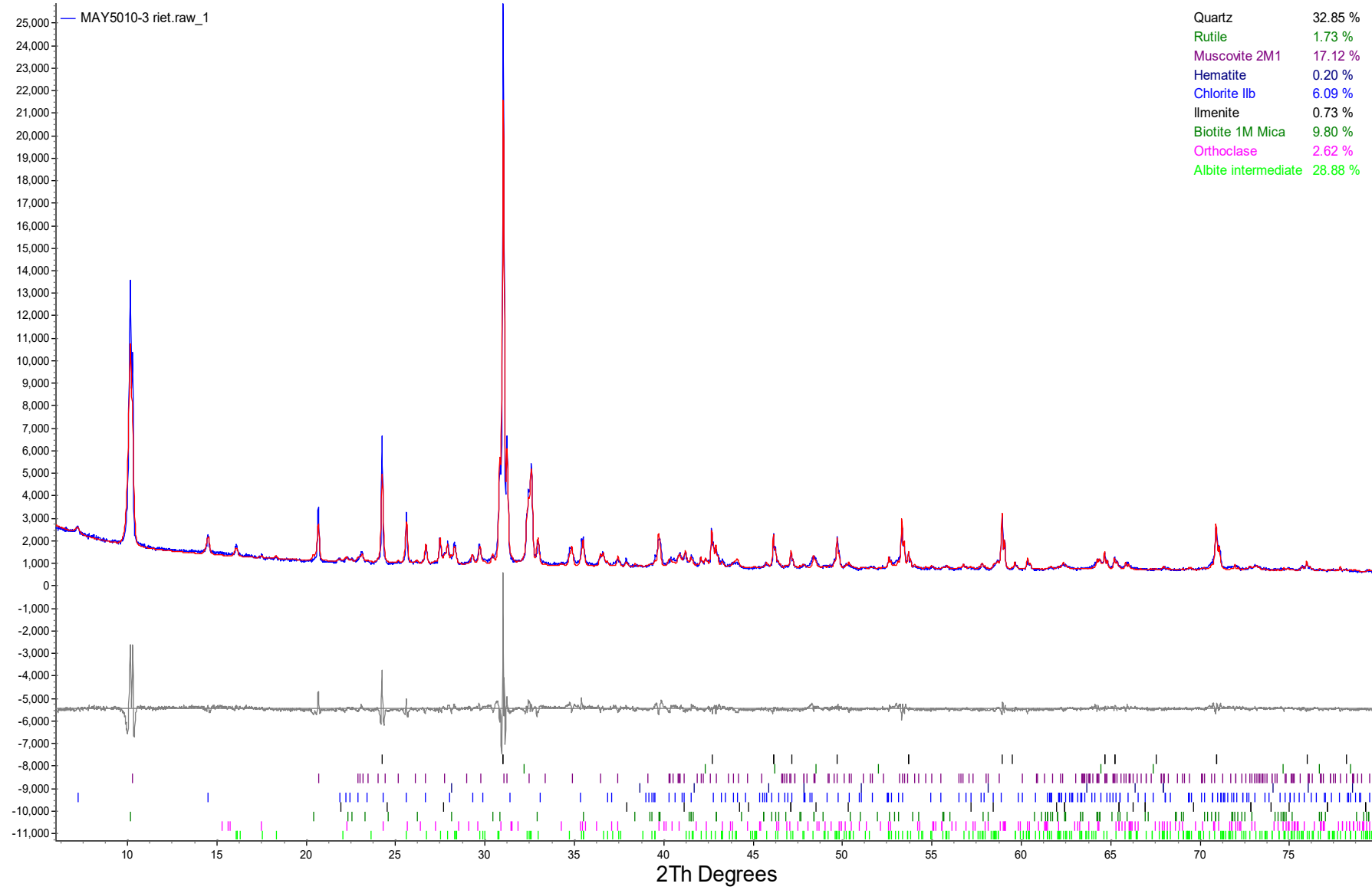
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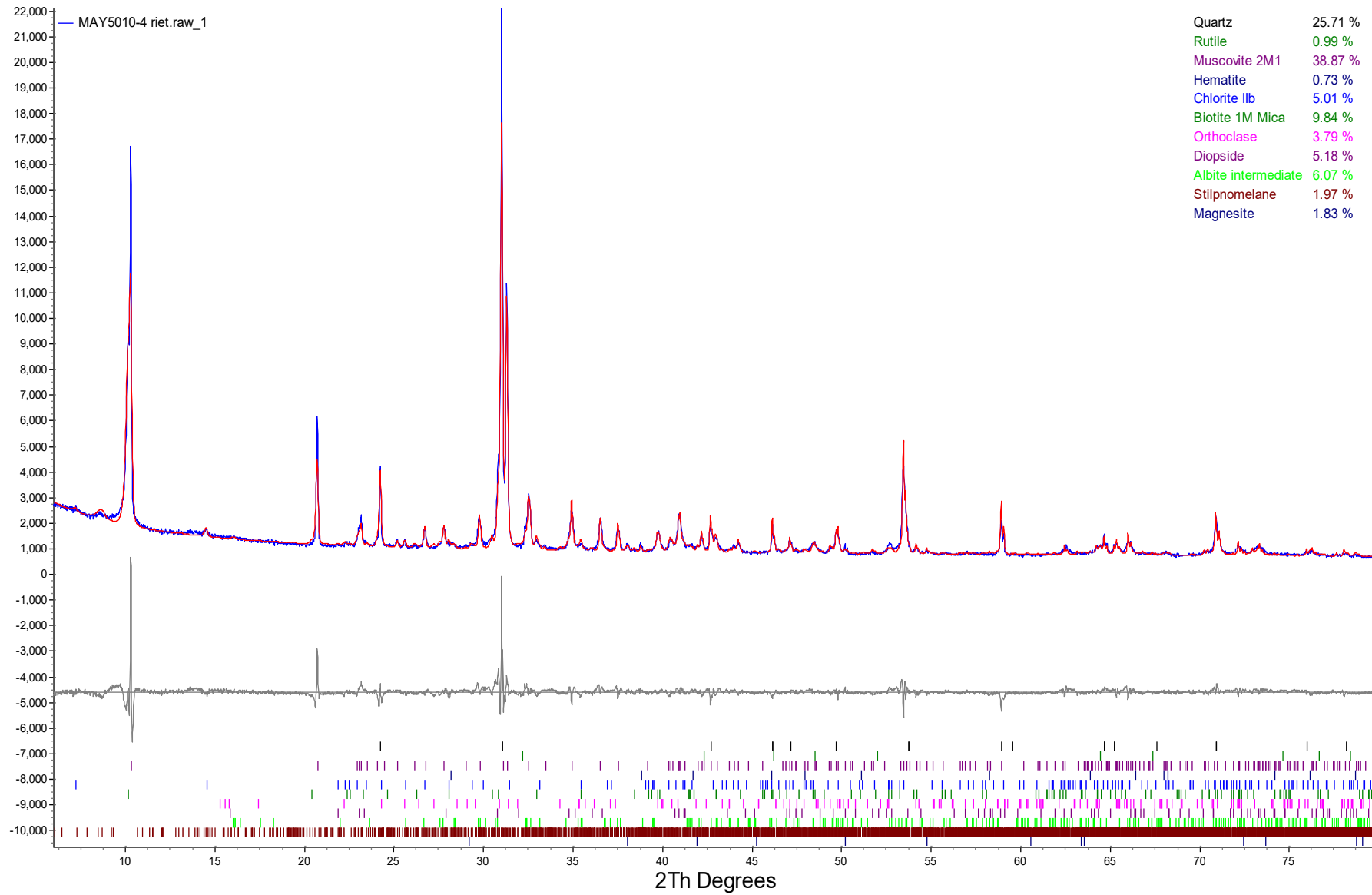
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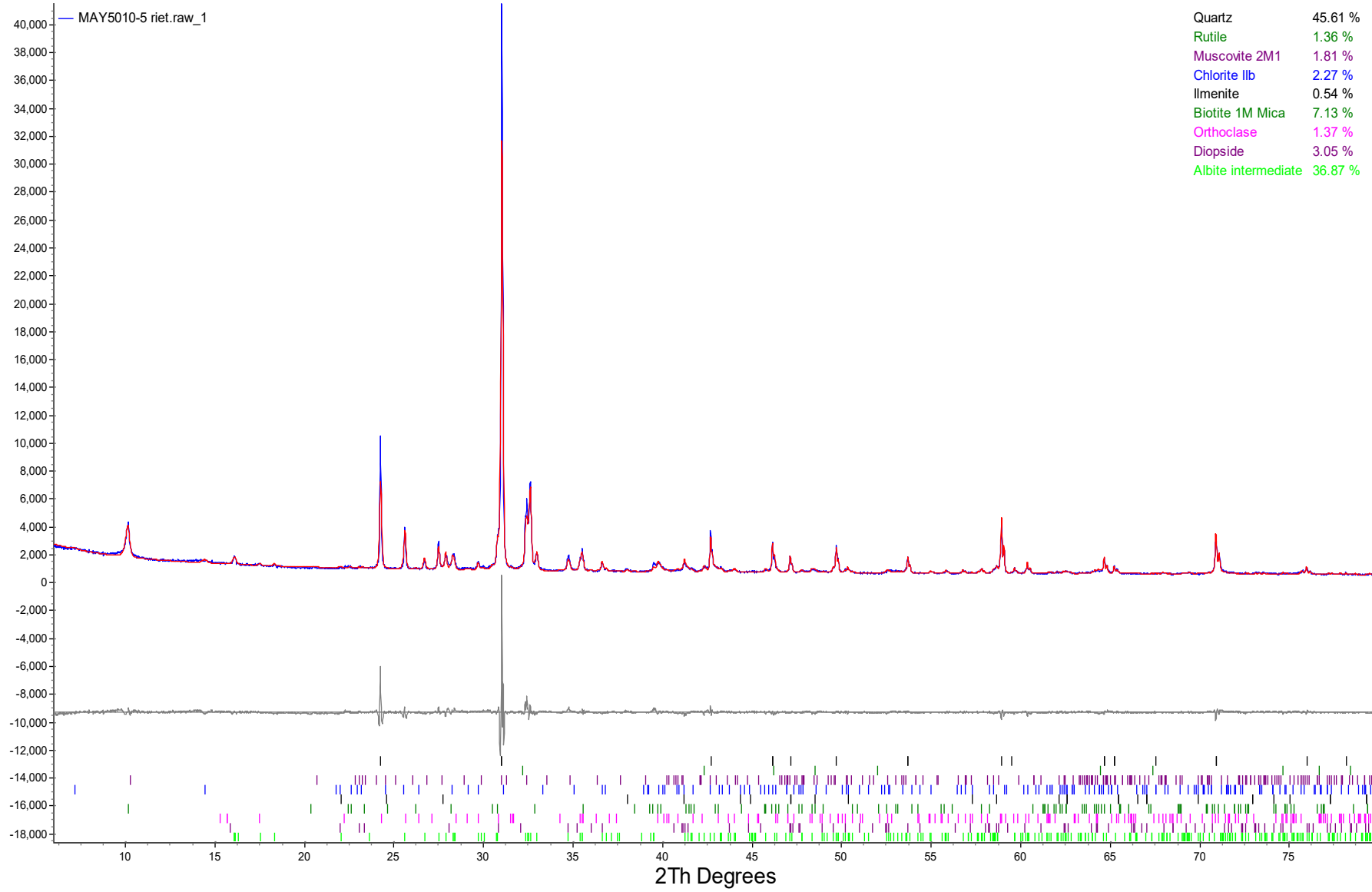
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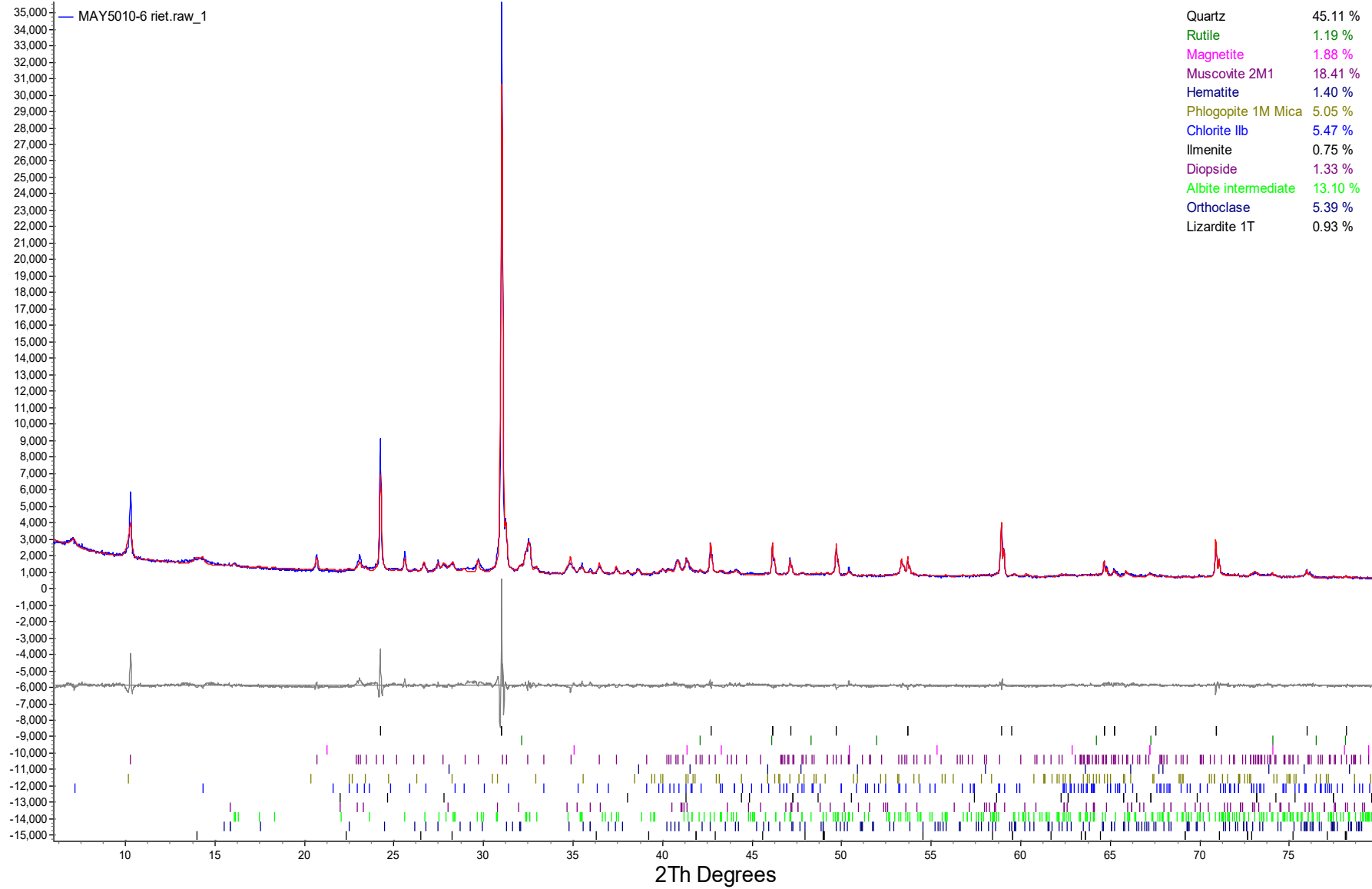
B-47-11-12'



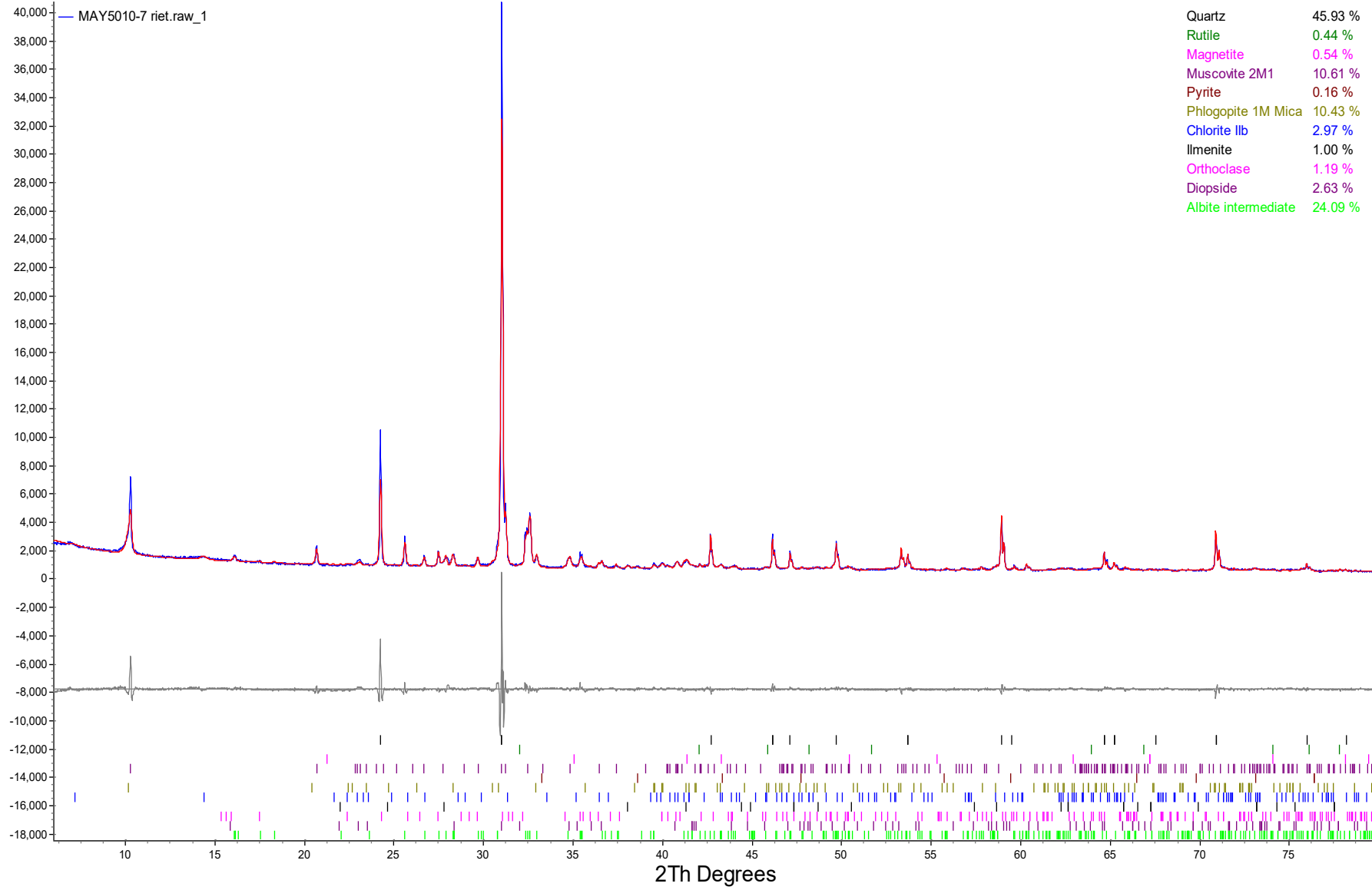
B-48-23-24'



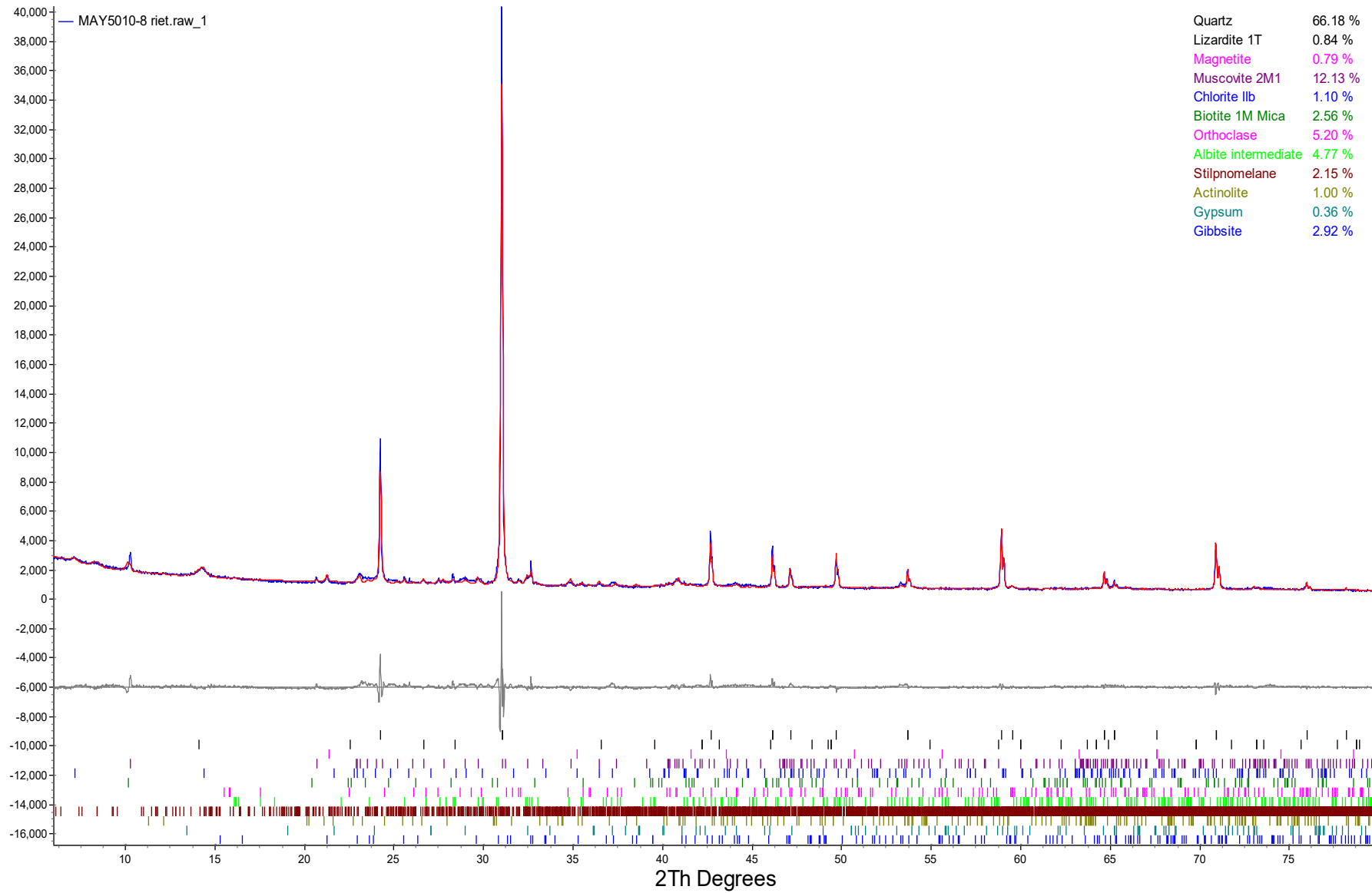
DGWC-121-38-40'



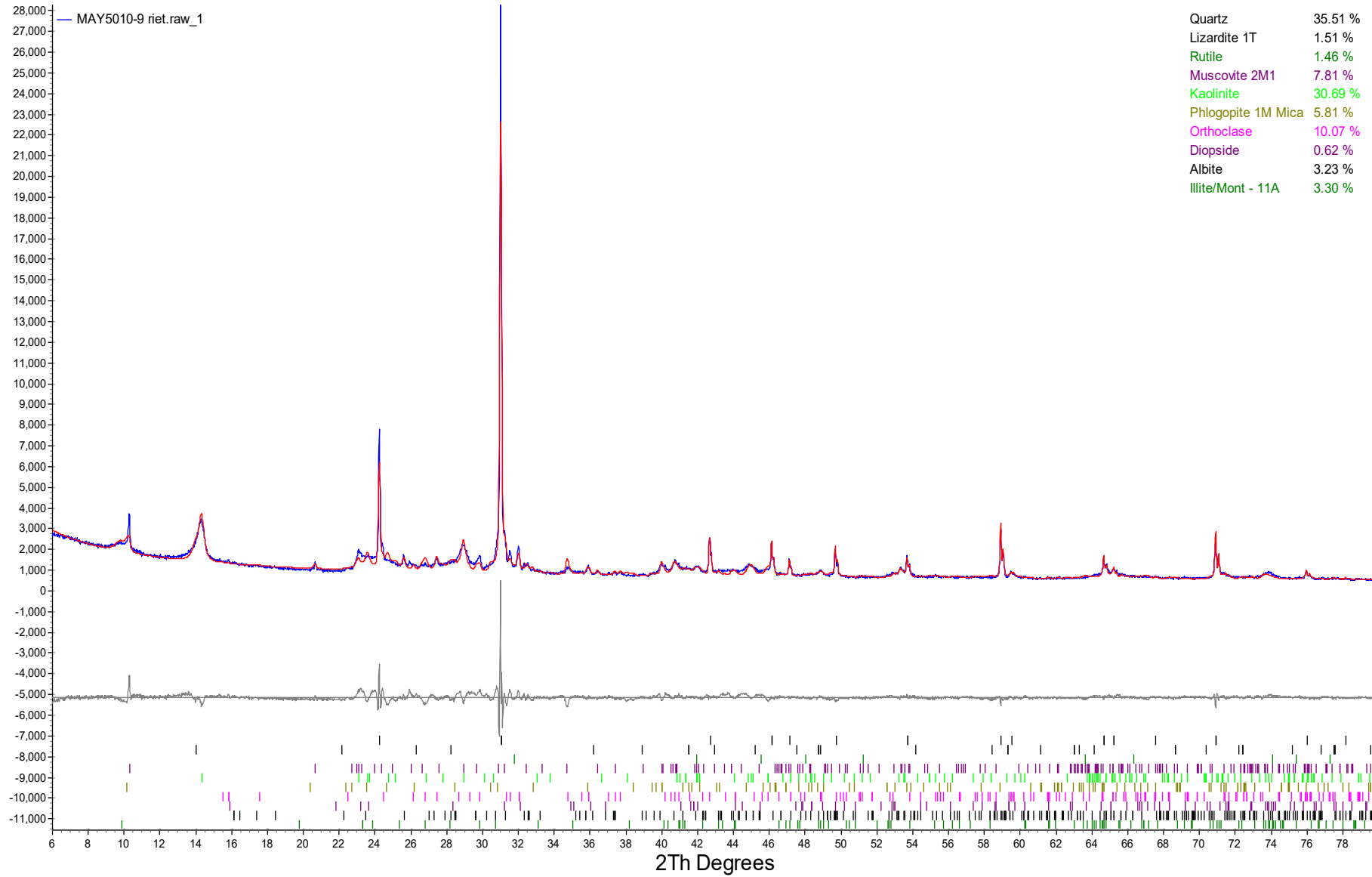
DGWC-121-49-50'



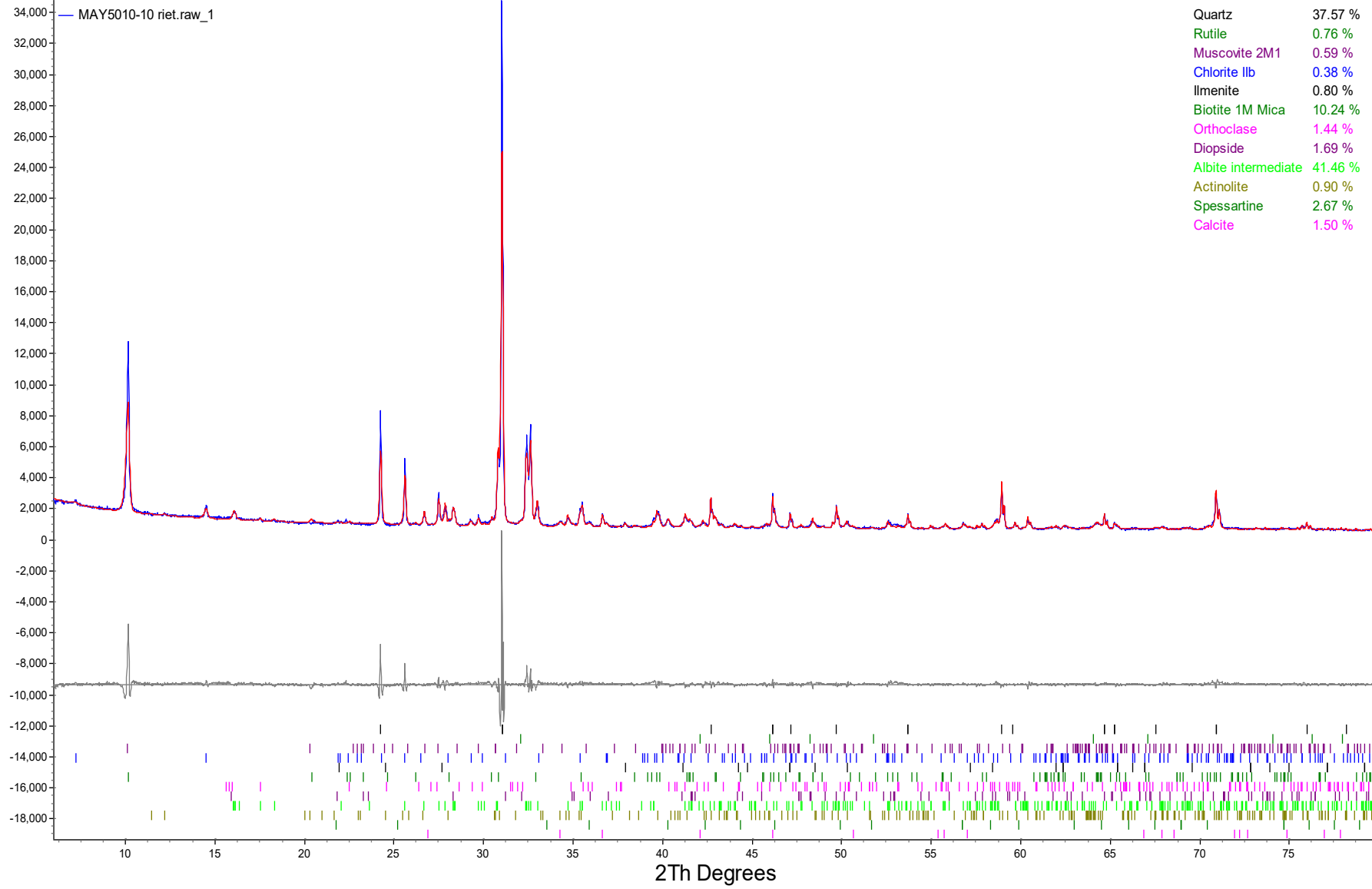
B-122D-39-40'



B-123D-27-28'



B-123D-145'



APPENDIX B

SEN'S SLOPE/MANN KENDALL TREND ANALYSES

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

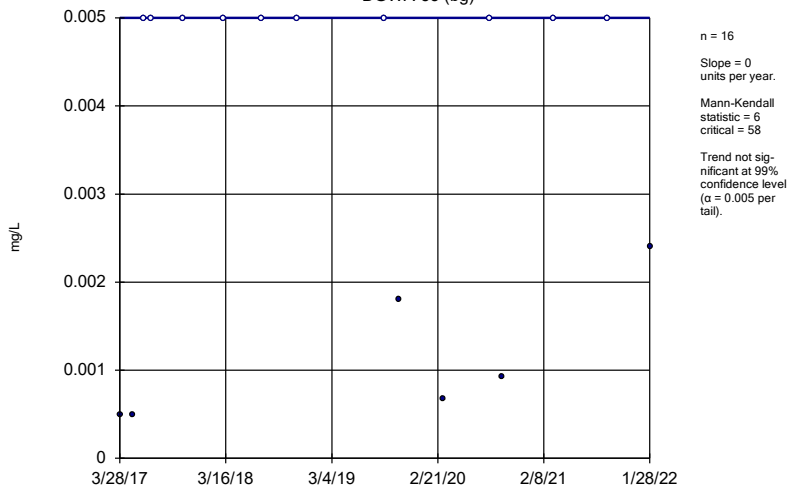
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	16	62.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-17	-58	No	16	87.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	23	53	No	15	80	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.0005672	5	58	No	16	6.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001569	-32	-58	No	16	31.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006697	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001058	-57	-58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004175	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001047	23	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.002989	-2	-8	No	4	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.003614	9	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-70A (bg)	0	5	58	No	16	50	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	20	53	No	15	66.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-19	-0.0002359	-17	-58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	35	58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-104D	-0.07465	-4	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.006064	7	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003301	-8	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002296	-6	-14	No	6	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.04334	12	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-3.972	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-109D	3.172	2	8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.00009951	-11	-58	No	16	6.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	18	58	No	16	81.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001223	-45	-53	No	15	20	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

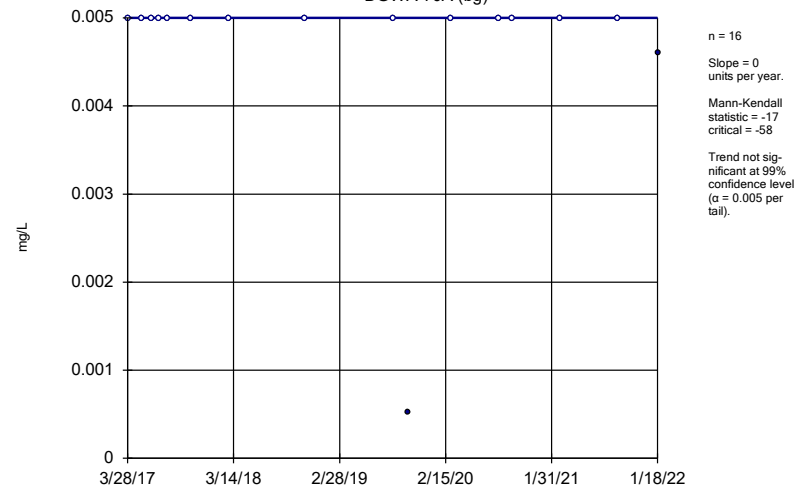
DGWA-53 (bg)



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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

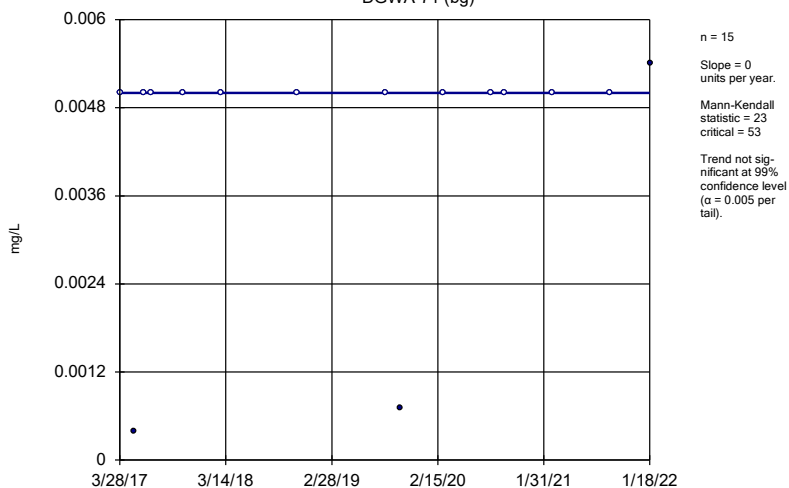
DGWA-70A (bg)



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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

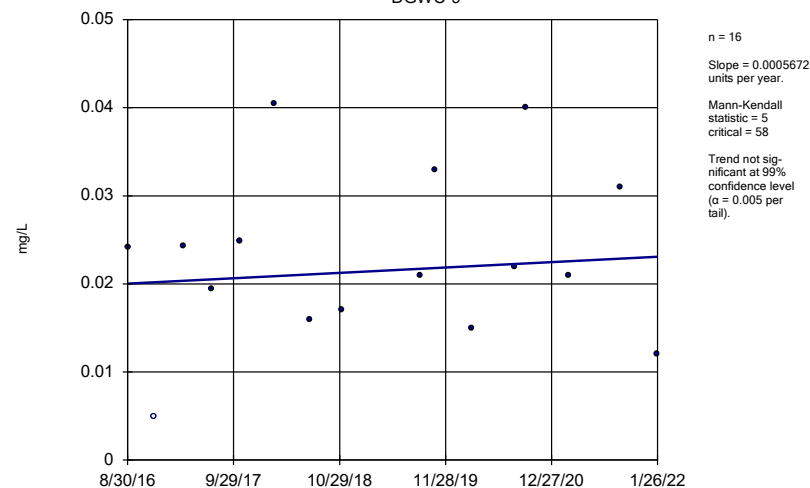
DGWA-71 (bg)



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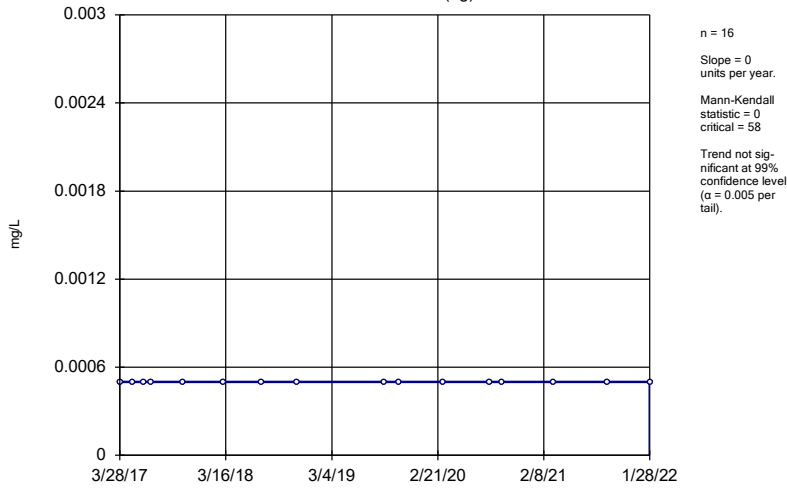
Sen's Slope Estimator

DGWC-9



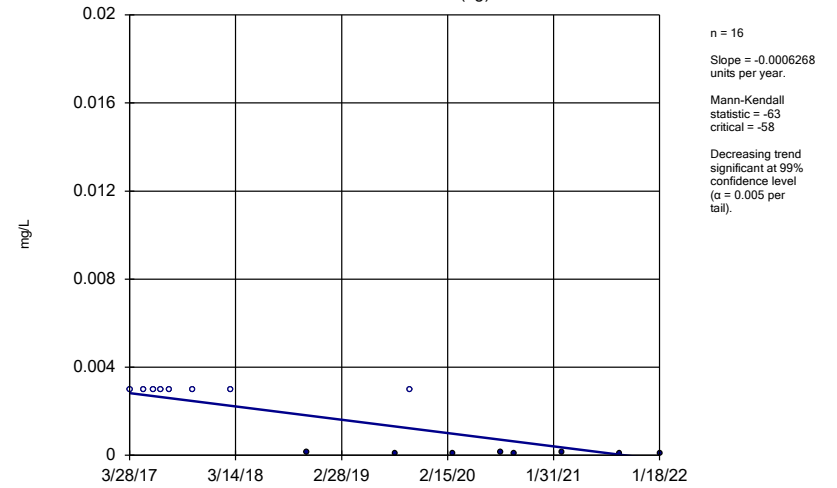
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Sen's Slope Estimator
DGWA-53 (bg)



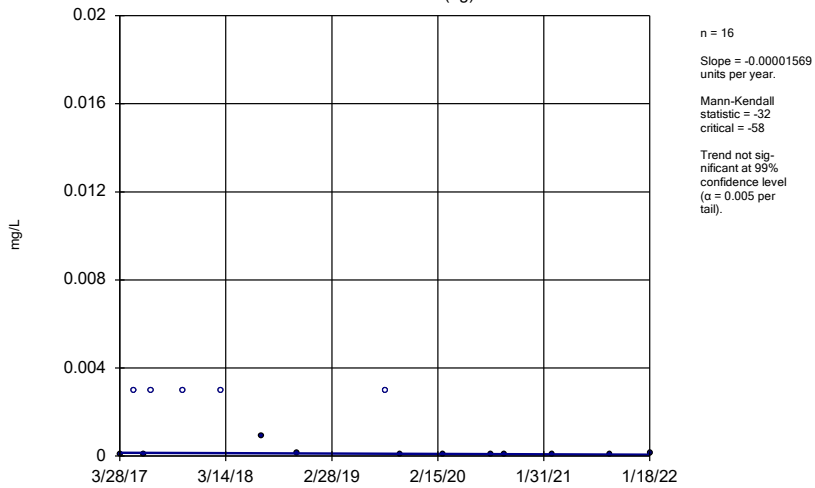
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



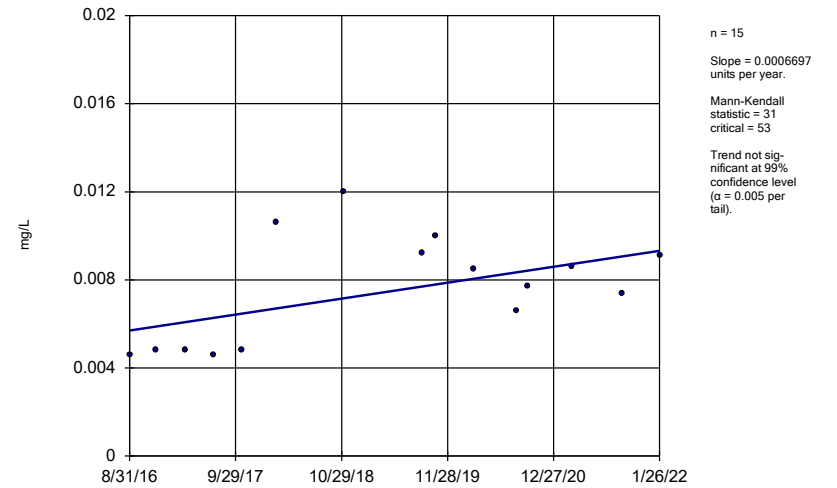
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Sen's Slope Estimator
DGWA-71 (bg)



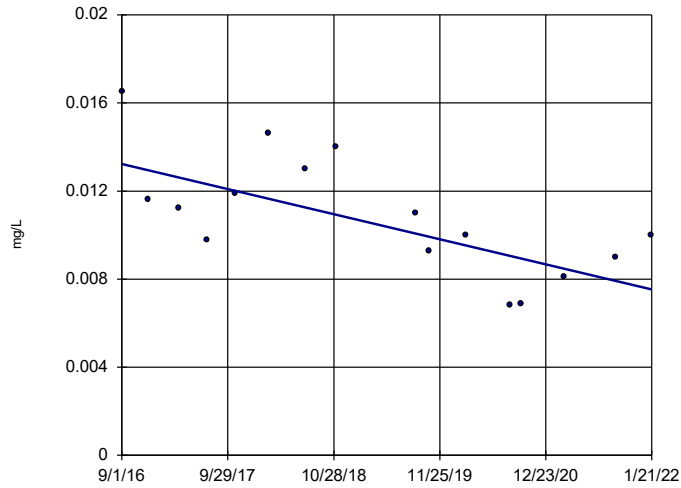
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



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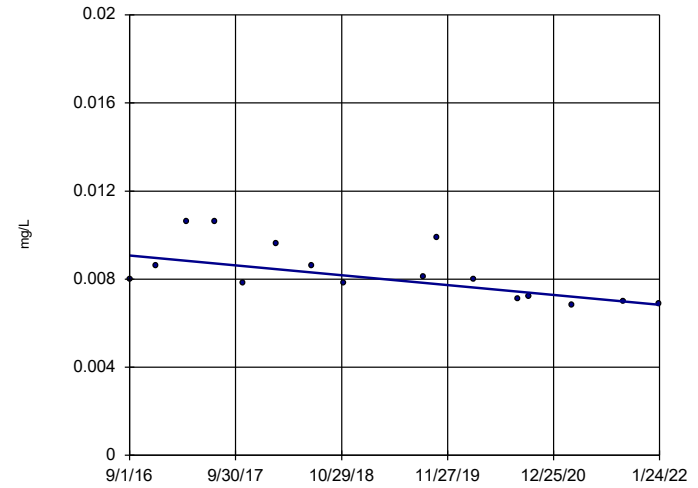
Sen's Slope Estimator DGWC-47



n = 16
 Slope = -0.001058
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

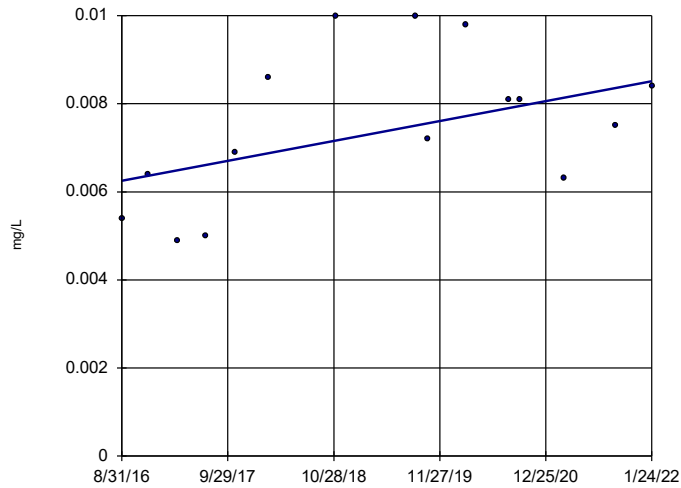
Sen's Slope Estimator DGWC-48



n = 16
 Slope = -0.0004126
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

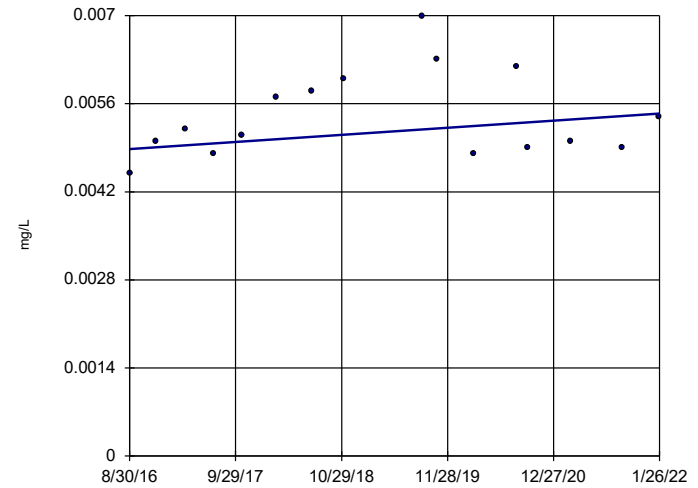
Sen's Slope Estimator DGWC-5



n = 15
 Slope = 0.0004175
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

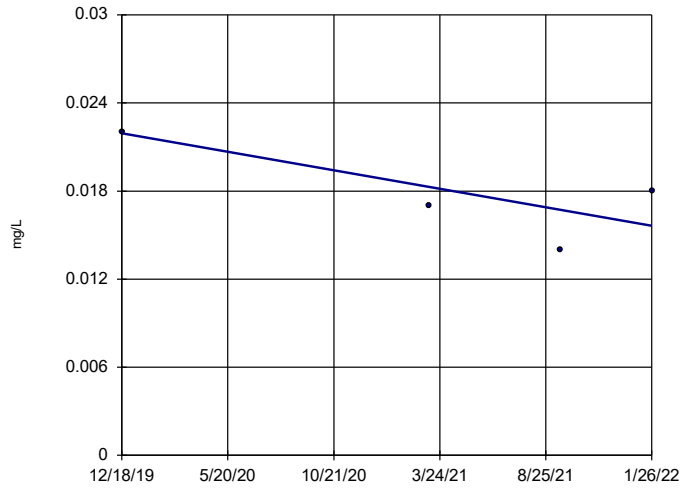
Sen's Slope Estimator DGWC-9



n = 16
 Slope = 0.0001047
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

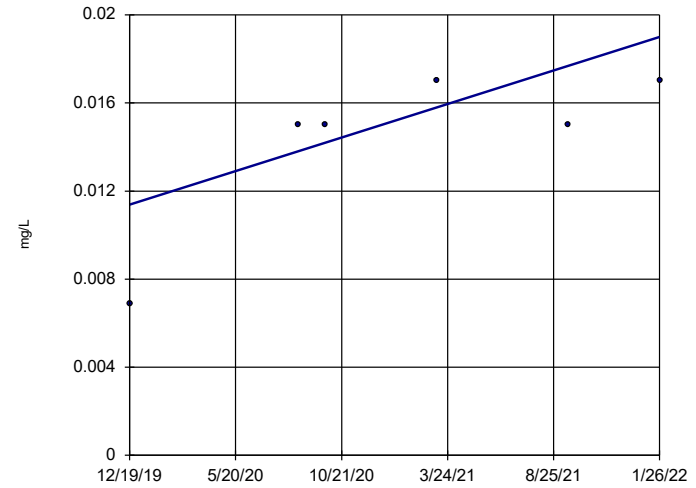
Sen's Slope Estimator
B-92



n = 4
 Slope = -0.002989 units per year.
 Mann-Kendall statistic = -2
 critical = -8
 Trend not significant at 99% confidence level (α = 0.005 per tail).
 With n = 4, no data set will result in a significant Mann-Kendall statistic.

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

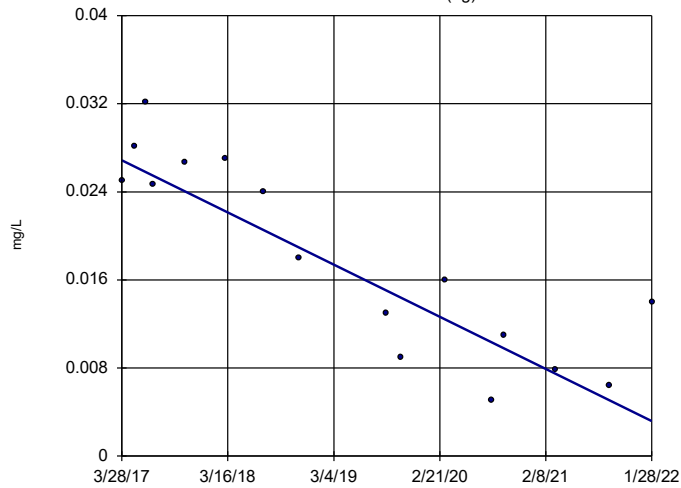
Sen's Slope Estimator
B-93



n = 6
 Slope = 0.003614 units per year.
 Mann-Kendall statistic = 9
 critical = 14
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

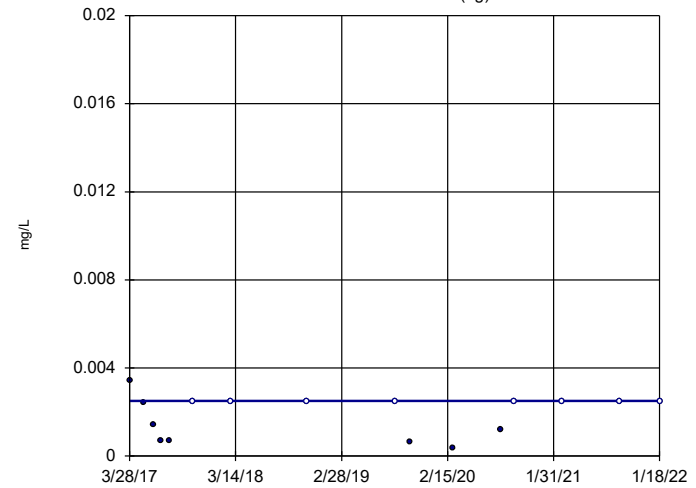
Sen's Slope Estimator
DGWA-53 (bg)



n = 16
 Slope = -0.004889 units per year.
 Mann-Kendall statistic = -80
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
 Plant McDonough Client: Southern Company Data: McDonough AP

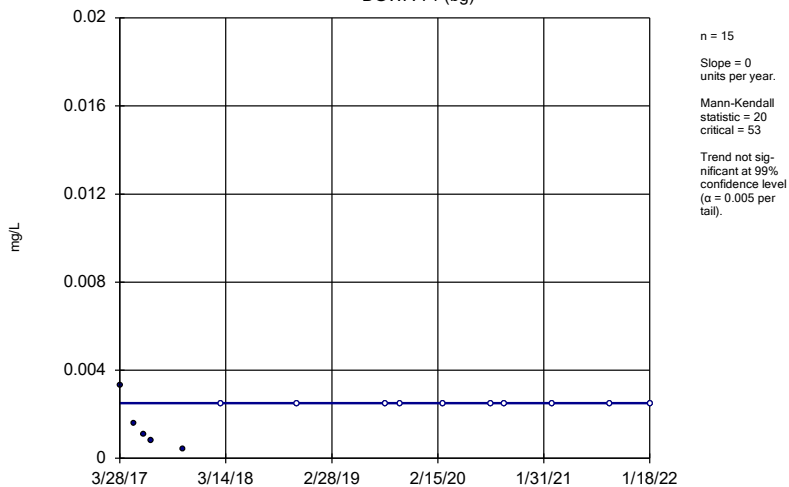
Sen's Slope Estimator
DGWA-70A (bg)



n = 16
 Slope = 0 units per year.
 Mann-Kendall statistic = 5
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

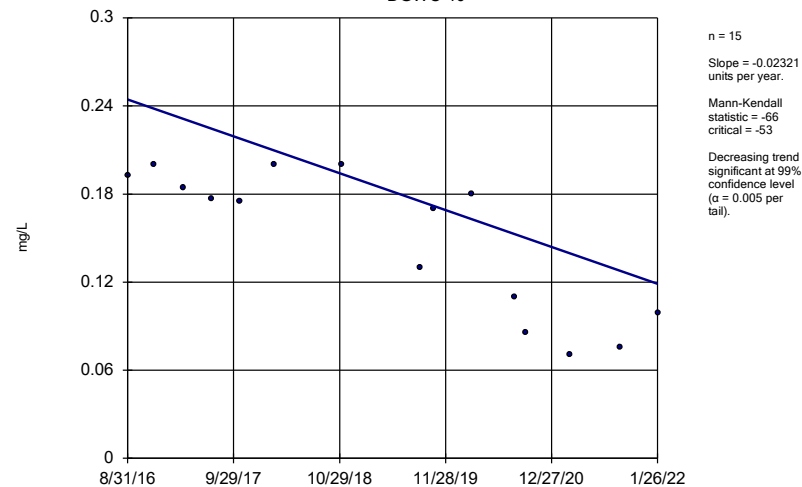
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



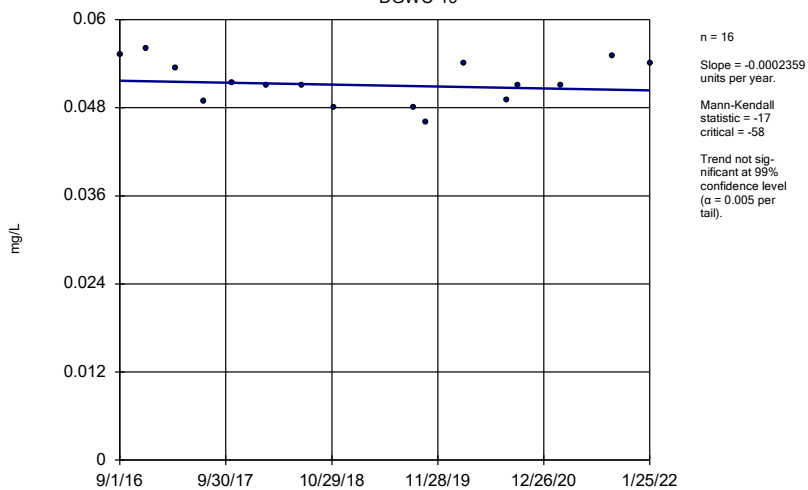
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



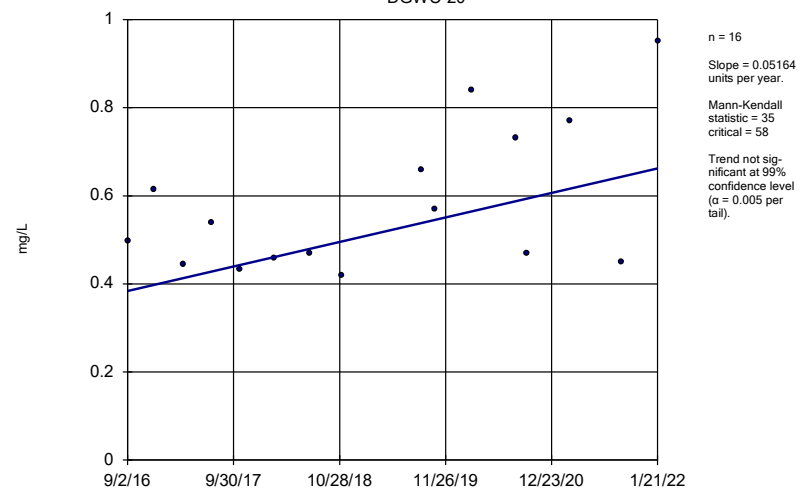
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-19



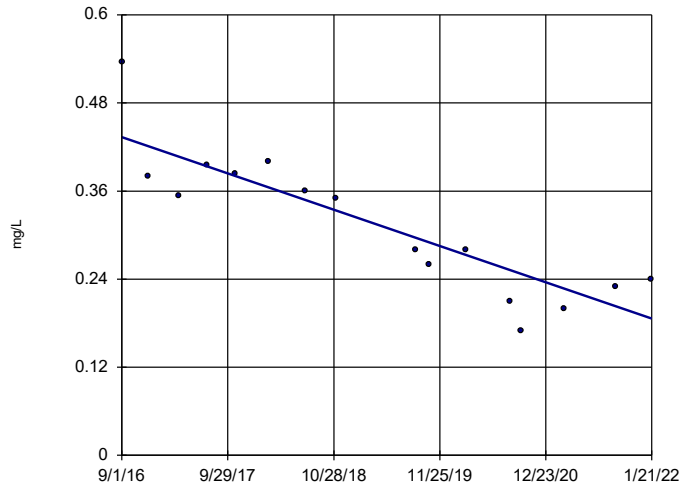
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-20



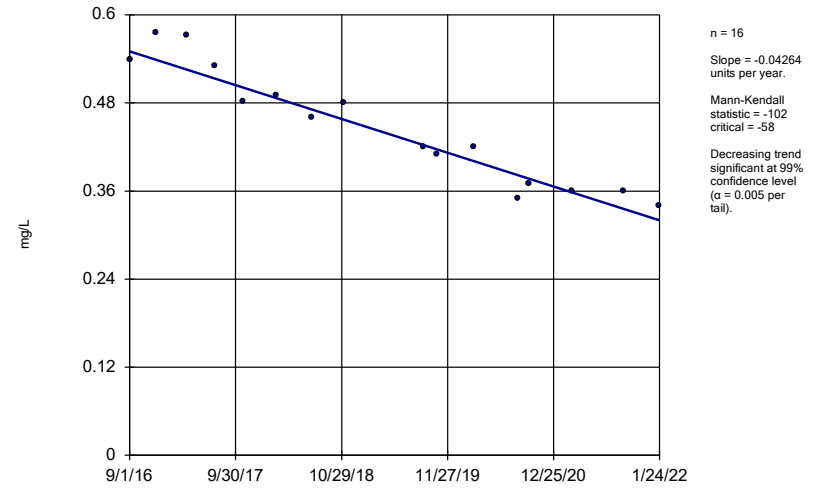
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



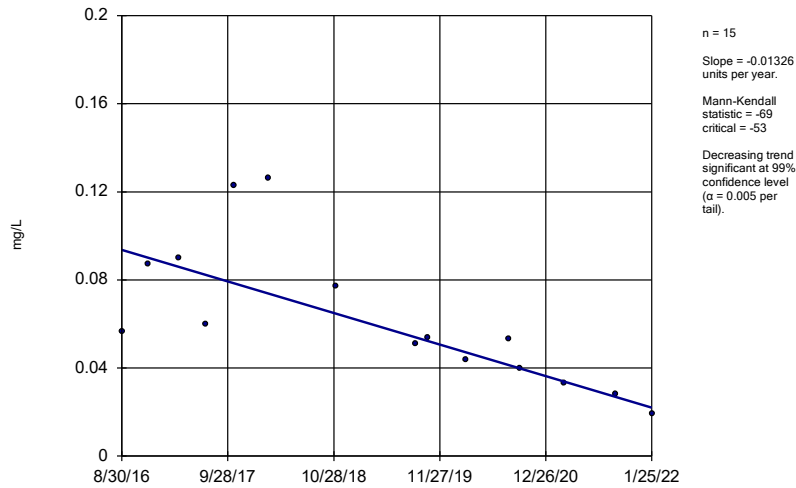
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



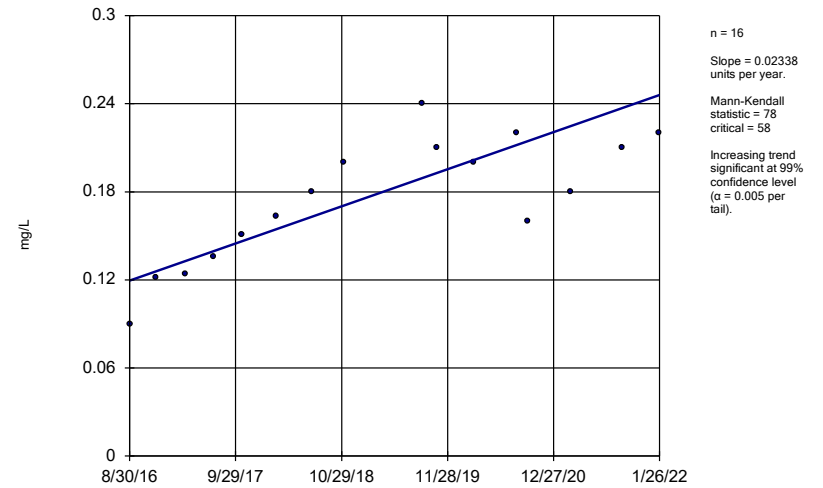
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-8



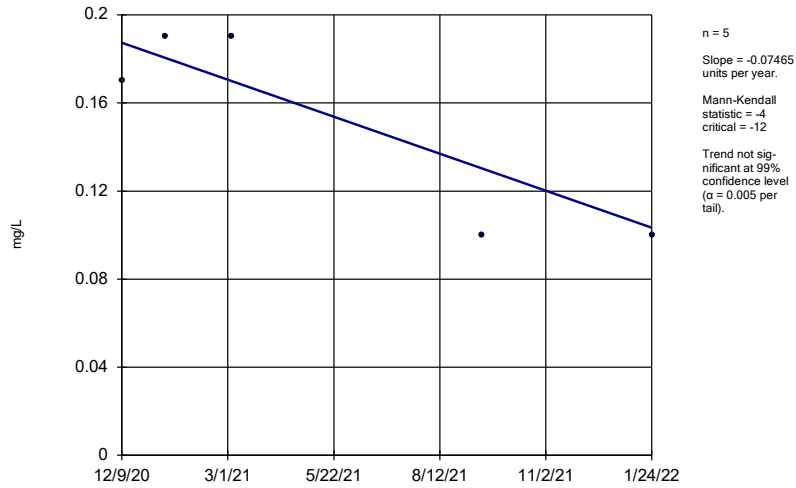
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



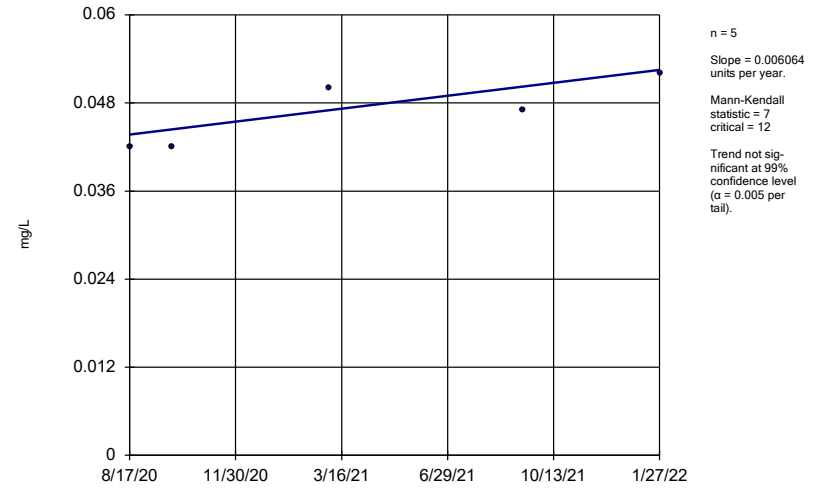
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
B-104D



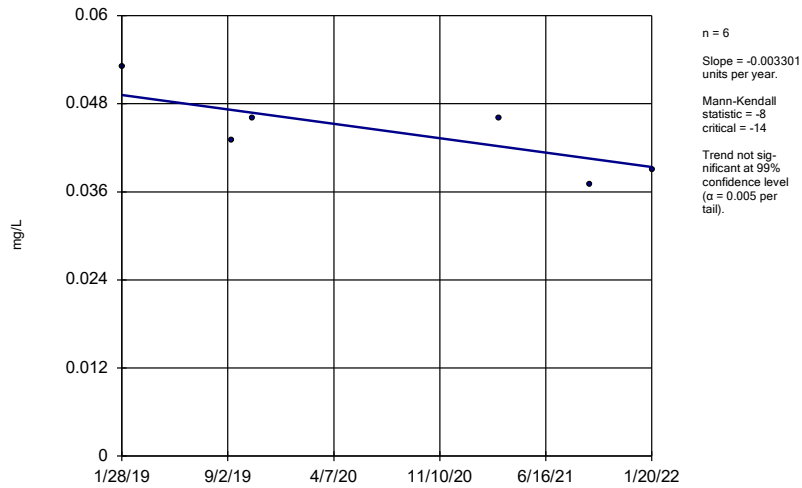
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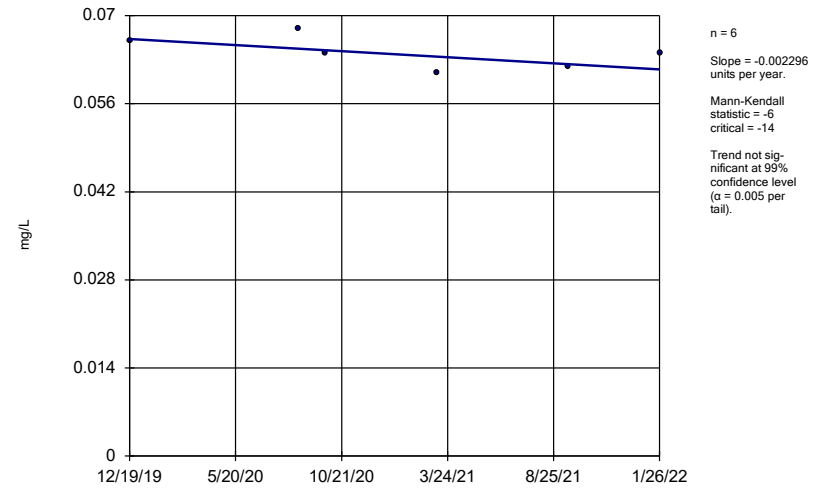
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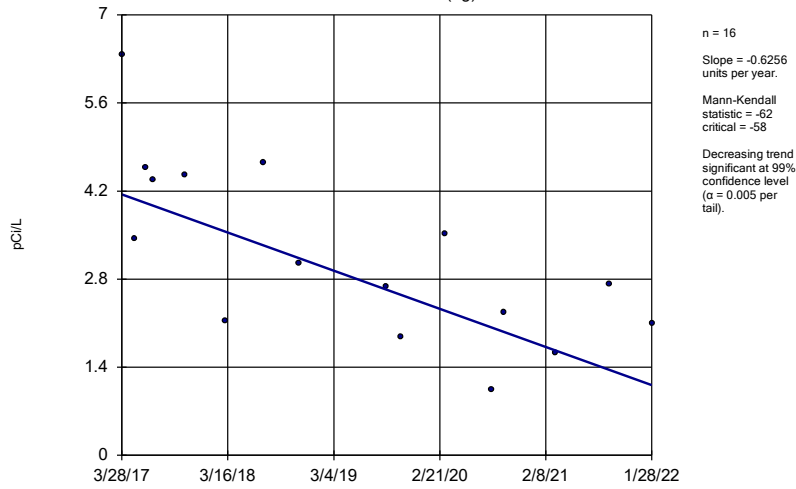
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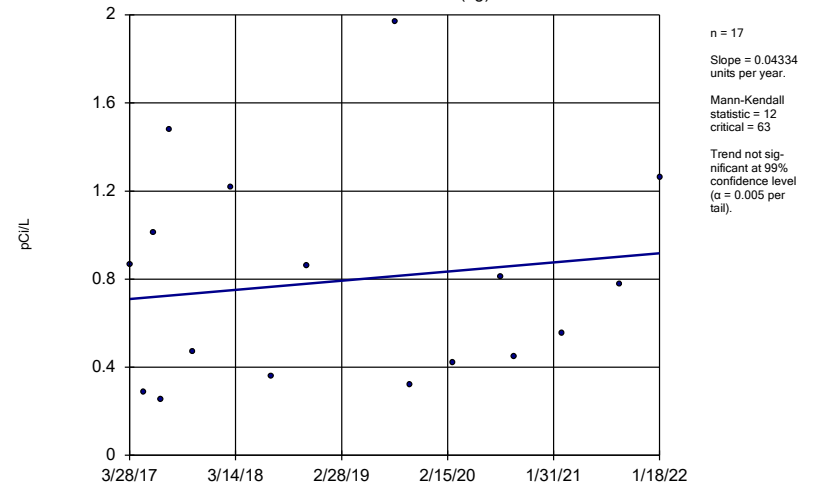
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Sen's Slope Estimator
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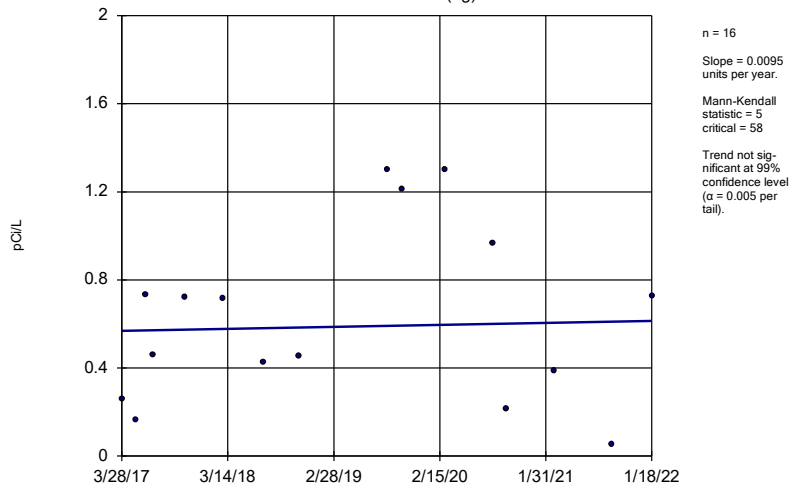
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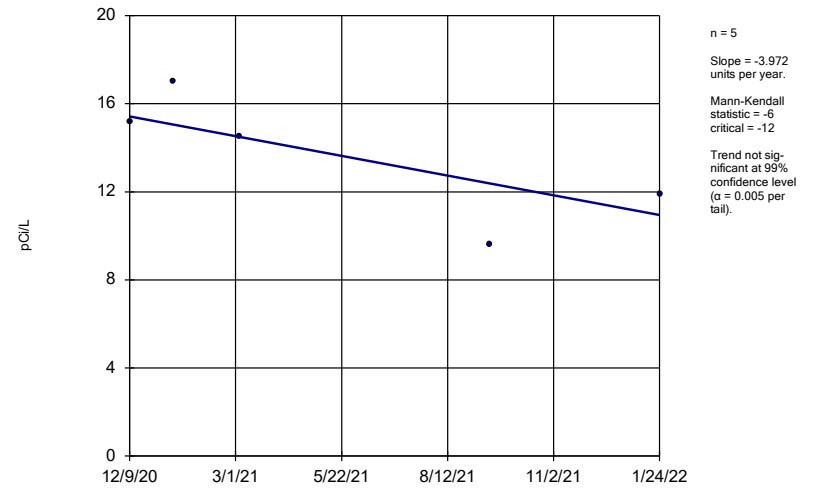
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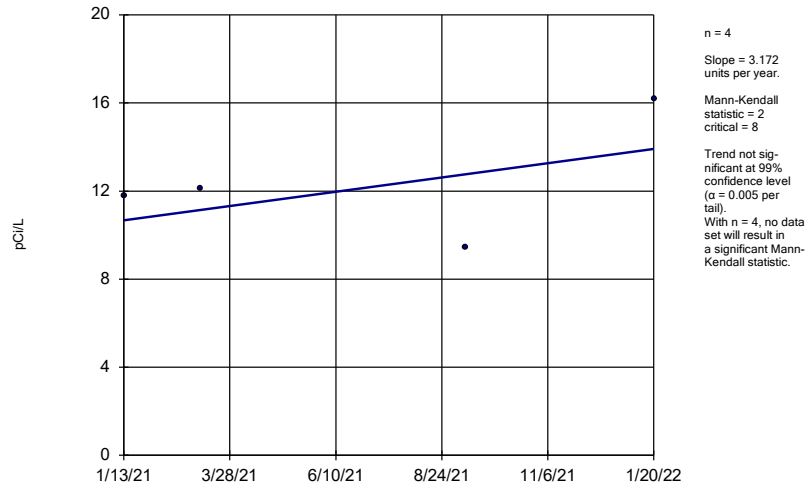
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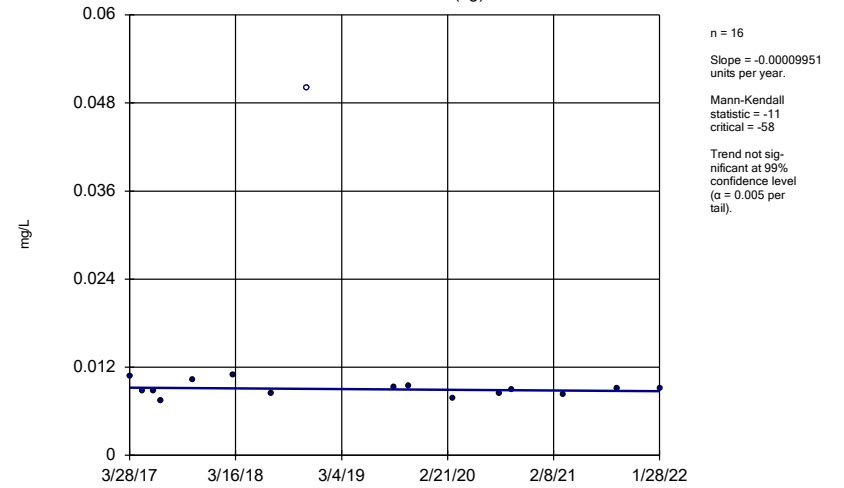
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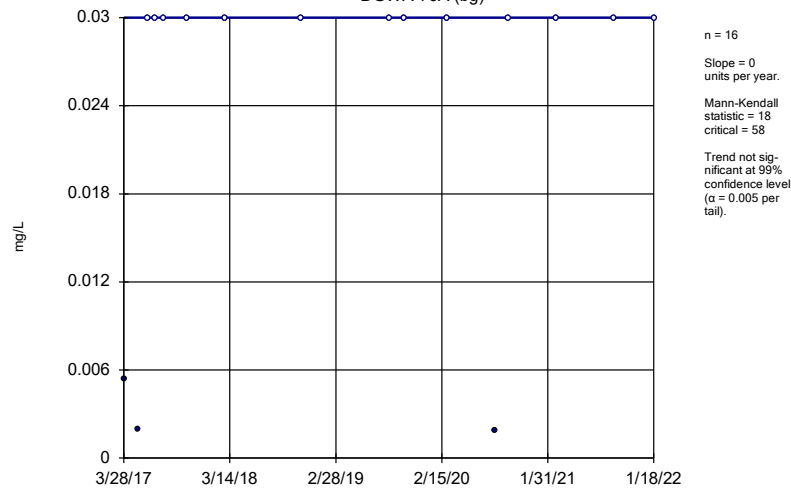
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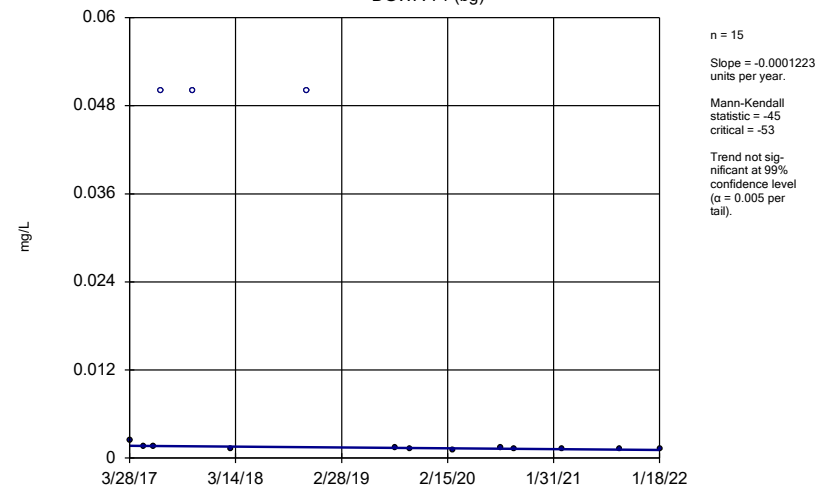
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Sen's Slope Estimator
DGWA-70A (bg)



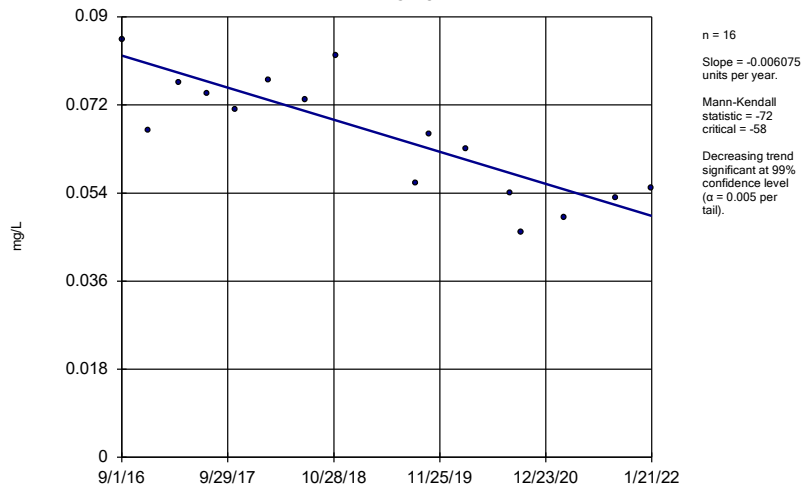
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Sen's Slope Estimator
DGWA-71 (bg)



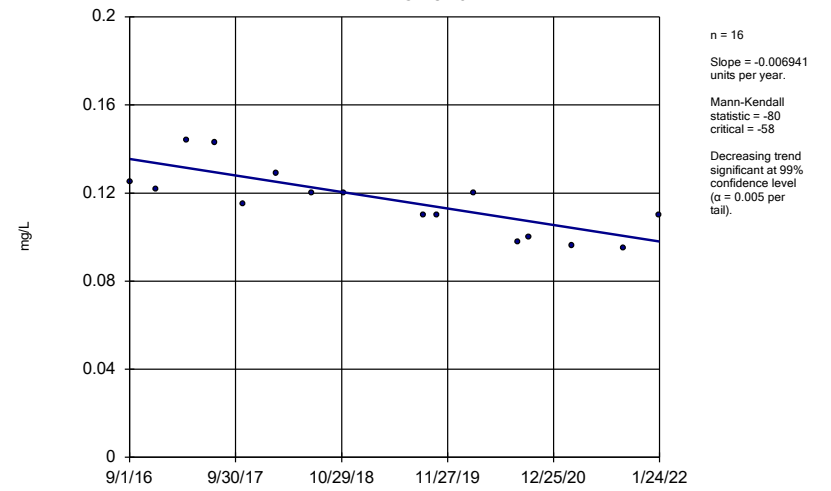
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-47



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-48



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX C

**TERRA SYSTEMS, INC. TREATABILITY STUDY
REPORT**

July 20, 2022

Todd Rees, PhD, PE
Senior Program Leader

 **GOLDER** Golder Associates Inc.
Amherst, MA., Montrose, CO.

TERRA SYSTEMS, INC. FINAL REPORT FOR GOLDBER/WSP FOR COAL COMBUSTION RESIDUE AT PLANT MCDONOUGH ATKINSON ASH POND 1, 2, 3, AND 4 TREATABILITY STUDY VERSION 6

1.0 INTRODUCTION

Coal combustion residue landfill may generate acidic conditions which allow metals such as arsenic (As), beryllium (Be), cobalt (Co), lithium (Li), molybdenum (Mo), and selenium (Se) to accumulate to levels above regulatory limits. This bench-scale treatability evaluated neutralization/precipitation with potassium bicarbonate, sodium bicarbonate, and calcium oxide and precipitation/adsorption with zero valent iron (ZVI), ferrous oxide, and ferrous sulfide for five groundwaters from Georgia Power Company (Georgia Power) Plant McDonough-Atkinson Ash Pond 1 (AP-1) which has arsenic and molybdenum in two groundwaters (DGWC-69 and DGWC-68A) and cobalt in DGWC-40. Plant McDonough-Atkinson Ash Pond 2, Ash Pond 3 and Ash Pond 4 (AP-2 and 3/4) has arsenic, beryllium, cobalt, lithium, and selenium in two groundwaters (DGWC-48 and DGWC-20). The Georgia Groundwater Protection Standards (GA GWPS) is 0.010 mg/L for arsenic, 0.0040 mg/L for beryllium, 0.032 mg/L for cobalt, 0.10 mg/L for lithium, 0.10 mg/L for molybdenum, and 0.050 mg/L for selenium.

2.0 BENCH-SCALE STUDY SCOPE

The objective of the bench-scale study is to evaluate the appropriate in situ remediation technology for several metals including arsenic, cobalt, beryllium, lithium, molybdenum, and selenium:

- Identify the feasibility of in-situ remediation.
- Determine the design parameters including reagent dosage and demand.

The bench-scale treatability study will investigate six reagents: potassium bicarbonate, sodium bicarbonate, calcium oxide, iron oxide, ferrous sulfide, and zero valent iron.

2.1 Reagent Selection

The bench-scale treatability study assumes that one of the following technologies can be used for in-situ remediation of the metals:

- elevated pH precipitation
- oxidation with iron oxide
- reduction with ferrous sulfide
- oxidation and precipitation with calcium oxide
- direct sorption/precipitation onto the ZVI.

All reagents used for the bench-scale test were commercially available products. The reagent usages and their dosages could be adjusted according to the results of the activities and observations during the execution of the bench-scale treatability study. The following provides more detail on each of the reagents proposed for the bench-scale treatability testing:

- **Potassium Bicarbonate:** Potassium bicarbonate can increase the pH up to about 8.2 SU. Four loadings of LC Carlsen potassium bicarbonate were evaluated in the tests to determine the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A); four loadings of potassium bicarbonate to address cobalt from one groundwater in AP-1 DGWC-40; and four loadings of potassium bicarbonate to address arsenic, beryllium, cobalt, lithium, and selenium in AP 234 (DGWC-48 and DGWC-20).
- **Sodium Bicarbonate:** Sodium bicarbonate can increase the pH up to about 8.3 SU. Four loadings of Genesis sodium bicarbonate were evaluated in the tests to determine precipitation of cobalt from one groundwater in AP-1 (DGWC-69 and DGWC-68A); and four loadings of sodium bicarbonate to address arsenic, beryllium, cobalt, lithium, and selenium in AP 234 (DGWC-48 and DGWC-20).
- **ZVI:** ZVI can enhance precipitation of cobalt and can sorb this metal. A commercially available product of submicron ZVI (Ferox Nanostar) from Hepure (Flemington NJ) and Nanoiron s.r.o (Zudicgivue, Czech Republic) were evaluated. Three loadings of ZVI were evaluated in the tests to determine the precipitation/sorption of arsenic and molybdenum will be evaluated in the groundwater from AP-1 DGWC-69 and DGWC-68A; determine precipitation of cobalt from one groundwater in AP-1 (DGWC-40); and to address arsenic, beryllium, cobalt, lithium, and selenium in AP-234.
- **Calcium oxide.** Calcium oxide is prepared by heating limestone. In water, it will form calcium hydroxide. Calcium hydroxide has a solubility of about 1.6 g/L and a pH of 12.5 SU. Three loadings of Sigma Aldrich >98% calcium oxide were evaluated for the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A).
- **Ferric oxide.** Ferric oxide (Fe_2O_3) is insoluble in water and has a pH of 6-8. Three loadings of Sigma Aldrich ferric oxide (<5 μm , 96%) were evaluated for the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A).
- **Ferrous sulfide.** Ferrous sulfide (FeS) is insoluble in water and has a pH of 9.5-12.5. Three loadings of Sigma Aldrich ferrous sulfide technical grade were evaluated for the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A).

2.2 Bench-scale Groundwater Collection

Groundwater samples were collected from the five locations. With 1 L reaction vessels for each treatment, about 5 gallons of each of the five groundwaters were required. The samples were delivered to the TSI under a chain of custody. Samples from DGWC-20, DGWC-48, DGWC-68A, DGWC-19, DGWC-47 and DGWC-69 were delivered to TSI on 1/28/22 and stored in refrigerators. The samples from DGWC-20, DGWC-48, and DGWC-69 were transferred to 1.3-

gallon jugs while purging with nitrogen gas. The sample from AP-1 DCWC-68A was received in 1-gallon jugs. Golder/WSP decided not to test the DGWC-19 and DGWC-47 groundwaters. The groundwater sample from AP-1 DGWC-40 was received on 2/10/22.

2.3 Baseline characterization

At the beginning of the bench-scale treatability test, the baseline characterization was performed to verify contaminant concentrations in the samples. The groundwater samples were homogenized to the extent possible. The homogenized groundwater samples were analyzed for total cobalt, arsenic, molybdenum, beryllium, lithium, selenium, iron, potassium, manganese, magnesium, and sodium (metals chosen based upon site characteristics); dissolved arsenic, beryllium, cobalt, molybdenum, lithium, and selenium (based upon site characteristics); dissolved organic carbon (DOC), and sulfate, by the Eurofins Lancaster Laboratories and for pH, ORP, dissolved oxygen (DO), bicarbonate alkalinity, total hardness, ferrous iron, and sulfide by TSI using calibrated meters and Hach procedures.

2.4 Titration Tests

Alkaline titrations were conducted to determine the potassium bicarbonate and sodium bicarbonate testing dosages. An alkaline titration test was completed to determine the pH resulting from 0, 1, 2, 5, and 10 g/L additions of potassium bicarbonate and sodium bicarbonate reagent dosages. The total suspended solids (TSS) were determined by weighing the 0.2 μm nylon filter before filtering the samples and after filtration and drying in a 105 °C oven. The weight of the TSS collected was divided by the volume of groundwater that passed through the filters.

2.5 Reagent Screening

The purpose of this step was to select the most appropriate reagent for each of the nine groundwater samples.

The reagent dosages were determined from the baseline characterization and titration. For each sample, a total of 12 to 13 reactors were set up for each site. The studies were prepared in an anaerobic chamber with a 92% nitrogen, 5% carbon dioxide, and 3% hydrogen atmosphere to maintain the redox state of the groundwater.

AP-1 (Arsenic and Molybdenum) DGWC-69 and DGWC-68A

- Control
- Potassium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Calcium Oxide: 3 dosages (1, 2, and 5 g/L)
- Ferric Oxide: 3 Dosages (0.5, 1.0, and 2.0 g/L)
- Ferrous Sulfide: 3 Dosages (0.5, 1.0, and 2.0 g/L)

AP-1 (Cobalt) DGWC-40

- Control
- Potassium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- Sodium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- ZVI: 3 Dosages (0.5, 1.0, and 1.5 g/L)

AP-2 and 3/4 (Arsenic, Beryllium, Cobalt, Lithium, and Selenium) DGWC-48 and DGWC-20

- Control
- Potassium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- Sodium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- ZVI: 3 Dosages (0.5, 1.0, and 1.5 g/L)

All containers were mixed and turned periodically for seven days. Groundwater samples (the supernatants in the reactors) were analyzed for:

- total arsenic, beryllium, cobalt, molybdenum, and selenium (based upon contaminants of concern for each site);
- total lithium for DGWC-48 and DGWC-20
- total iron, potassium, manganese, magnesium, and sodium
- dissolved arsenic, beryllium, cobalt, lithium, molybdenum, and selenium (based upon contaminants of concern for each site). The samples were filtered through 0.2 μm nylon filters and the filtrates were divided into bottles for DOC and metals.
- dissolved lithium for DGWC-48 and DGWC-20
- dissolved organic carbon (DOC)
- sulfate

Eurofins Lancaster Laboratories of Lancaster PA conducted the metals, DOC, and sulfate analyses. The pH, ORP, dissolved oxygen (DO), bicarbonate alkalinity, total hardness, ferrous iron, and sulfide were conducted by TSI using calibrated meters and Hach procedures. The estimated sample volumes for the initial characterization, screening, and rebound tests are shown in Table 1. The volumes were adjusted to account for required dilutions and volumes of water available.

3.0 AP-1

3.1 AP-1 Initial Characterization Results

Table 2 has the results of the field parameters, Hach tests, metals, DOC, and sulfate results for the three groundwater samples in AP-1.

AP-1 DGWC-69. The pH ranged from 6.4 to 7.3 with a moderate bicarbonate alkalinity of 60 mg/L CaCO_3 . There was a positive ORP (167 mV) and moderately high dissolved oxygen (9.8 mg/L). The TSS was 8.4 mg/L with a hardness 40 mg/L, 0.01 mg/L ferrous iron, and no sulfide. The pH increased from 6.4 to 7.8 SU with 1 g/L sodium bicarbonate and increased to 8.3 with 10 g/L. The pH increased from 7.1 to 8.2 SU with 1 g/L potassium bicarbonate and to 8.4 with 10 g/L. This groundwater has low 6 mg/L sulfate and 1.5 mg/L DOC. Total arsenic was 0.022 mg/L and dissolved arsenic was 0.020 mg/L; both exceeded the GA GWPS. Molybdenum was detected but below 0.006 mg/L and was below the GA GWPS. The groundwater contained 0.13 mg/L total iron, 2.3 mg/L total magnesium, 0.027 mg/L total manganese, 2.4 mg/L potassium, and 9.5 mg/L sodium.

AP-1 DGWC-68A. The pH ranged from 6.3 to 6.8 with a moderate bicarbonate alkalinity of 200 mg/L CaCO_3 . There was a positive ORP (224 mV) and moderately high dissolved oxygen (10.8 mg/L). The TSS was 13.8 mg/L with a hardness 120 mg/L, 0.01 mg/L ferrous iron, and no sulfide. The pH increased from 6.8 to 7.5 SU with 1 g/L sodium bicarbonate and increased to 8.2 with 10 g/L. The pH increased from 6.6 to 7.2 SU with 1 g/L potassium bicarbonate and to 8.2 with 10 g/L. This groundwater has moderate 78 mg/L sulfate and 1.1 mg/L DOC. Total arsenic and

dissolved arsenic not detected. Molybdenum was relatively high with 0.22 g/L total and 0.20 mg/L dissolved; both exceeded the GA GWPS of 0.10 mg/L. The groundwater contained 0.049 mg/L total iron, 18 mg/L total magnesium, 0.096 mg/L total manganese, 3.8 mg/L potassium, and 11 mg/L sodium.

AP-1 DGWC-40. The initial pH was 4.8 with a bicarbonate alkalinity of 5 mg/L CaCO₃. There was a positive ORP (226 mV) and moderate dissolved oxygen (5.5 mg/L). The TSS was 0.8 mg/L with a hardness of 240 mg/L, 0.28 mg/L ferrous iron, and no sulfide. The pH increased from 4.8 to 6.9 SU with 1 g/L sodium bicarbonate and increased to 8.0 with 10 g/L. The pH increased from 4.8 to 6.9 SU with 1 g/L potassium bicarbonate and to 7.9 with 10 g/L. This groundwater has moderate 190 mg/L sulfate and no detectable DOC. Total cobalt was detected at 0.039 mg/L and dissolved cobalt at 0.038 mg/L; both were slightly above the GA GWPS of 0.032 mg/L. The groundwater contained 0.039 mg/L total iron, 19 mg/L total magnesium, 3.4 mg/L total manganese, 6.1 mg/L potassium, and 19 mg/L sodium.

3.2 AP-1 Testing Results

Well DGWC-69 Summary. Table 3 has the field parameters and ELLE results for this groundwater.

On Day 0, the control pH was 6.6 and increased to 7.7 for the 2 g/L loading of potassium bicarbonate. The highest dosage of 10g/L potassium buffers had a pH of 8.5 on Day 0. On Day 7, the pH for the potassium bicarbonate treatments ranged from 7.8 to 8.4, 11.9 to 12.1 for the calcium oxide treatments, from 7.1 to 8.7 for the iron oxide, and from 6.2 to 6.8 for the ferrous sulfide treatments. The ORPs were positive (except for the CaO treatments where the very high pHs caused negative ORPs) and ranged from -76 to 247 mV. DO ranged from 4.4 to 8.0 mg/L. The total suspended solids ranged from 0 to 2,673 mg/L. The treatments with 5 g/L KHCO₃, 1-5 g/L CaO, 0.5-2 g/L Fe₂O₃, and 0.5-2.0 FeS had elevated TSS. Bicarbonate alkalinity was moderate in the control (35 mg/L as CaCO₃) and increased with bicarbonate additions. Phenolphthalein alkalinity was very high in the CaO treatments due to the extreme pHs. The hardness ranged from 40 to 1,820 mg/L as CaCO₃. Only 1 and 2 g/L FeS treatments had a little ferrous iron. Sulfide was low (0.01 to 0.35 mg/L).

Sulfate ranged from 8.4 to 25 mg/L. Little DOC was detected; the higher dosages of buffer had the most, 2.1 and 4.9 mg/L. Total arsenic ranged from 0.0065 to 0.025 mg/L with the following treatments below the GA GWPS: 1 and 2 g/L FeS. Dissolved arsenic ranged from 0.00074 to 0.024 mg/L with the following treatments below the GA GWSP: 1 g/L CaO, 2 g/L CaO, 5 g/L CaO, 0.5 g/L Fe₂O₃, 1 g/L Fe₂O₃, 2 g/L Fe₂O₃, 0.5 g/L FeS, 1.0 g/L FeS, and 2 g/L FeS. Total molybdenum ranged from 0.0034 to 0.010 mg/L; all were below the GA GWPS. Dissolved molybdenum ranged from 0.00017 to 0.0057 mg/L with dissolved molybdenum below the GA GWPS in all treatments. Iron increased in almost all treatments except for the KHCO₃ treatments. Total magnesium did not change much except for the CaO treatments. Total manganese increased in all treatments. Potassium increased with the increasing loadings of potassium bicarbonate. Sodium ranged from 9.1 to 19 mg/L.

The CaO, Fe₂O₃, and FeS treatments showed significant reductions in dissolved arsenic with all of these treatments reducing dissolved arsenic below the GA GWPS. The Fe₂O₃ and the highest dosage of FeS reduced the dissolved molybdenum by more 50% and all treatments including the control were below the GA GWPS for molybdenum of 0.10 mg/L.

Well DGWC-68A Summary. Table 4 has the field parameters and ELLE results for this groundwater. On Day 0, the control pH was 6.6 and increased to 7.7 for the 2 g/L loading of potassium bicarbonate. The highest dosage of 10g/L potassium buffers had a pH of 8.5 on Day 7. The pH drifted down slightly over the 7-day incubation period. By Day 7, the pHs ranged from 11.6 to 11.9 for the calcium oxide treatments, from 6.7 to 8.1 for the iron oxide, and from 6.4 to 6.5 for the ferrous sulfide treatments. The ORPS were positive (except for the CaO treatments where the very high pHs caused negative ORPs) and ranged from -38 to 277 mV. DO ranged from 3.5 to 9.1 mg/L. The total suspended solids ranged from 0.9 to 2,530 mg/L. The treatments with 1-5 g/L CaO, 0.5-2 g/L Fe₂O₃, and 0.5-2.0 FeS had elevated TSS. Bicarbonate alkalinity was moderate in the control (180 mg/L as CaCO₃) and increased with bicarbonate additions. Phenolphthalein alkalinity was very high in the CaO treatments due to the extreme pHs. The hardness ranged from 120 to 1,700 mg/L as CaCO₃. None of the treatments had much ferrous iron. Sulfide was low (0.01 to 0.10 mg/L).

Sulfate ranged from 33 to 54 mg/L. Little DOC was detected; the highest dosage of buffer had the most, 7.8 mg/L. Total arsenic ranged from <0.00068 to 0.0024 mg/L with all treatments below the GA GWPS. Dissolved arsenic was not detected. Total molybdenum ranged from 0.026 to 0.21 mg/L. Dissolved molybdenum ranged from 0.031 to 0.21 mg/L with all measurements higher than the Control Day 0. The following treatments were less than the GA GWPS for dissolved molybdenum on Day 7: 1 g/L Fe₂O₃, 2 g/L Fe₂O₃, and 2 g/L FeS. Iron increased in almost all treatments except for the KHCO₃ treatments. Total magnesium ranged from 10 to 30 mg/L and was highest in the CaO treatments. Total manganese increased in all treatments. Potassium increased with the increasing loadings of potassium bicarbonate. Sodium ranged from 9.1 to 19 mg/L.

Arsenic was below detection limits except for total arsenic in the 5 g/L CaO and 0.5 to 2.0 g/L Fe₂O₃ treatments. The higher dosages of Fe₂O₃ and the highest dosage of FeS reduced the dissolved molybdenum to below the GA GWPS.

Well DGWC-40 Summary. Table 5 has the field parameters and ELLE results for this groundwater. The control pH was 4.8 on Day 0 and increased to between 6.8 and 6.9 for the lowest loading of potassium and sodium bicarbonate with the highest dosage of buffers having pHs of 8.0 to 8.1. The pHs were generally slightly lower (-1.1 to 0.5 SU). The pHs in the ZVI treatments ranged from 5.7 to 6.1 SU on Day 7. The ORPS were positive (except for the highest ZVI loading) and ranged from -335 to 256 mV. DO ranged from 1.4 to 5.4 mg/L. There were not much total suspended solids (0 to 8.2 mg/L) except in the treatments with ZVI (likely due to carryover of the ZVI). Bicarbonate alkalinity was low in the control and increased with potassium and sodium bicarbonate additions. The hardness ranged from 180 to 240 mg/L. Only the control (0.14 mg/L) and the ZVI treatments (0.11 to 9.0 mg/L) had much ferrous iron. Sulfide was low (0.02 to 0.17 mg/L).

Sulfate ranged from 210 to 230 mg/L. Little DOC was detected (0.52 to 3.2 mg/L). Total Co ranged from 0.035 to 0.044 mg/L with the GA GWPS of 0.032 mg/L for cobalt. Only the 1.5 g/L ZVI showed 34.2% reduction to below the GA GWPS. Iron increased in almost all treatments from the IC but the most iron was found in the ZVI treatments. Magnesium ranged from 18 to 20 mg/L and manganese from 3.1 to 4.0; neither of these metals were impacted by the bicarbonate or ZVI treatments. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.

Only the 1.5 g/L ZVI treatment showed removal of dissolved cobalt to below the GA GWPS with a 34.2% reduction.

3.3 AP-1 Conclusions

Table 6 summarizes the percent removals from the initial characterization samples or the Control Day 0 for the dissolved metals of concern across the various groundwaters. Compounds highlighted in green were reduced to below the GA GWPS by the treatments.

Arsenic. In the AP-1 DGWC-69 all treatments with calcium oxide, ferric oxide, and ferrous sulfide reduced dissolved arsenic to below the GA GWPS but not the potassium bicarbonate treatments. The AP-1 DGWC-68A had no detectable dissolved arsenic.

Cobalt. The GA GWPS for cobalt is 0.032 mg/L. Only the 1.5 g/L ZVI treatment reduced dissolved Co in the AP-1 DGWC-40 groundwater to below the GA GWPS.

Molybdenum. All of the treatments, including the control, were below the GA GWPS for molybdenum in the DGWC-69 groundwater treatments. Ferrrous oxide at 1 and 2 g/L loadings and the highest loading of ferrous sulfide was effective in reducing dissolved Mo in the DGWC-68A groundwater to below the GA GWPS.

Overall Conclusions. The calcium oxide, ferric oxide, and ferrous sulfide reduced arsenic to below the GA GWPS in the DGWC-69 groundwater. Only the highest loading of ZVI reduced cobalt in the AP-1 DGWC-40 groundwater to below the GA GWPS. The higher dosages of ferric oxide and ferrous sulfide were effective for dissolved molybdenum in the DGWC-68A groundwater. The AP-1 DGWC-69 groundwater did not have dissolved arsenic above the GA GWPS.

4.0 AP-2 and 3/4

4.1 AP-2 and 3/4 Initial Characterization Results

Table 7 has the results of the field parameters, Hach tests, metals, DOC, and sulfate results for the two groundwater samples in AP-2 and 3/4.

Well DGWC-48. The pH ranged from 4.0 to 4.5 with no bicarbonate alkalinity. There was a positive ORP (338 mV) and moderately high dissolved oxygen (11.2 mg/L). The TSS was 0 mg/L with a hardness 20 mg/L, 2.52 mg/L ferrous iron, and no sulfide. The pH increased from 4.5 to 7.5 SU with 1 g/L sodium bicarbonate and increased to 8.2 with 10 g/L. The pH increased from 4.0 to 7.1 SU with 1 g/L potassium bicarbonate and to 8.2 with 10 g/L. This groundwater has high 520 mg/L sulfate and only 0.97 mg/L DOC. Total arsenic and dissolved arsenic were non-detect. Beryllium ranged from 0.0079 to 0.0086 mg/L which were above the GA GWPS. Cobalt was found at 0.33 to 0.35 mg/L above the GA GWPS of 0.032 mg/L. Lithium was found at 0.10 to 0.11 mg/L above the GA GWPS of 0.040 mg/L. No selenium was detected. The groundwater contained 3.9 mg/L total iron, 16 mg/L total magnesium, 13 mg/L total manganese, 14 mg/L potassium, and 23 mg/L sodium.

Well DGWC-20. The pH ranged from 4.4 to 5.0 with little bicarbonate alkalinity of <5 mg/L CaCO₃. There was a positive ORP (423 mV) and moderately high dissolved oxygen (9.6 mg/L). The TSS was 6.6 mg/L with no hardness, 0.07 mg/L ferrous iron, and no sulfide. The pH increased from 5.0 to 7.3 SU with 1 g/L sodium bicarbonate and increased to 8.1 with 10 g/L. The pH increased from 4.5 to 7.0 SU with 1 g/L potassium bicarbonate and to 8.1 with 10 g/L. This

groundwater has moderate 190 mg/L sulfate and no detectable DOC. Total cobalt was detected at 0.039 mg/L and dissolved cobalt at 0.038 mg/L. The groundwater was slightly hard with 0.039 mg/L total iron, 19 mg/L total magnesium, 3.4 mg/L total manganese, 6.1 mg/L potassium, and 19 mg/L sodium. has high 490 mg/L sulfate and only 0.71 mg/L DOC. Total arsenic and dissolved arsenic were 0.014 to 0.016 mg/L; above the GA GWPS. Beryllium ranged from 0.0073 to 0.0083 mg/L ; above the GA GWPS. Cobalt was found at 0.96 to 1.0 mg/L; above the GA GWPS. Lithium and selenium were not detected. The groundwater contained 0.12 mg/L total iron, 26 mg/L total magnesium, 42 mg/L total manganese, 14 mg/L potassium, and 24 mg/L sodium.

4.2 AP-2 and 3/4 Testing Results

Well DGWC-48 Summary. Table 8 has the field parameters and ELLE results for this groundwater. On Day 0, the control pH was 4.2 and increased to 6.9 for the lowest 1 g/L loading of potassium bicarbonate and to 7.1 for the lowest 1 g/L loading of sodium bicarbonate. The highest dosage of buffers had pHs of 7.9-8.0 on Day 7. The pH in the ZVI treatments on Day 7 ranged 5.0 to 6.4 SU. The ORPS on Day 7 were positive and ranged from 59 to 351 mV. DO ranged from 3.4 to 8.8 mg/L. The total suspended solids ranged from 11 to 150 mg/L. The treatments with 10 g/L KHCO_3 , 10 g/L NaHCO_3 and ZVI had elevated TSS. Bicarbonate alkalinity was low in the control and ZVI treatments (5-10 mg/L CaCO_3) and increased with bicarbonate additions. The hardness ranged from <20 to 220 mg/L with higher readings at the higher buffer loadings. Only control, 10 g/L sodium bicarbonate and the ZVI treatments had more than 0.15 mg/L ferrous iron. Sulfide was low (0.02 to 0.09 mg/L).

Sulfate ranged from 330 to 400 mg/L. Little DOC was detected (0.79 to 11 mg/L); the highest dosage of buffer had the most, 9.0 and 11 mg/L. Total and dissolved arsenic were not detected except total arsenic in the treatments with ZVI; dissolved As were well below the GA GWPS in all treatments. Total beryllium ranged from 0.0050 to 0.0073 mg/L; all samples were above the GA GWPS of 0.004 mg/L. Dissolved beryllium ranged from 0.00085 to 0.0071 mg/L with only the Control and ZVI treatments exceeding the GA GWPS. Total cobalt was moderate ranging from 0.17 to 0.34 mg/L. The following treatments showed more than 50% reductions in dissolved Co: 10 g/L KHCO_3 and 10 g/L NaHCO_3 with the no treatments decreasing the cobalt concentrations to below the GA GWPS. Total lithium ranged from 0.11 to 0.12 mg/L and dissolved lithium from 0.099 to 0.13 mg/L. None of the treatments reduced dissolved Li below the GA GWPS. Selenate and selenite were spiked into the AP-2 and 3/4 DGWC-48 groundwater. On Day 7, total Se ranged from 0.17 to 0.52 mg/L and dissolved selenium of 0.14 to 0.46 mg/L. No treatment reached the GA GWPS of 0.050 mg/L. Iron decreased in almost all treatments from the IC except for the ZVI treatments. Total magnesium did not change much ranging from 15 to 16 mg/L. Total manganese ranged from 5.3 to 14 mg/L and was reduced by >50% only in the 10 g/L NaHCO_3 treatments. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.,

The 1-10 g/L of both the potassium and sodium bicarbonate treatments showed significant (>50%) reductions in dissolved beryllium to below the GA GWPS. No treatment resulted in decreases in dissolved cobalt to below the GA GWPS. None of the treatments reduced the dissolved lithium to below the GA GWPS. Only the highest loading of 1.5 g/L ZVI removed more than 50% of the dissolved selenium from the spiked Control, but no treatment reached the GA GWPS for dissolved selenium. Arsenic was below the GA GWPS in all treatments.

Well DGWC-20 Summary. Table 9 has the field parameters and ELLE results for this groundwater. The total cobalt, selenium, iron, magnesium, manganese, potassium, and sodium in

the 2 g/L KHCO_3 treatment are low with the dissolved cobalt and selenium being considerably higher. The 5 and 10 g/L KHCO_3 treatments were reanalyzed and the tables have been updated.

The control pH at Day 0 was 4.5 SU and increased to 6.8 for the lowest loading of potassium bicarbonate and to 7.7 for the lowest loading of sodium bicarbonate. The highest dosage of buffers had pHs of 7.6-7.7 on Day 7. The ORPS were positive and ranged from 163 to 297 mV. DO ranged from 6.7 to 7.8 mg/L. The total suspended solids ranged from 2.6 to 460 mg/L. The treatments with 10 g/L KHCO_3 , 5 g/L NaHCO_3 , 10 g/L NaHCO_3 and 1.5 g/L ZVI had elevated TSS above 100 mg/L. Bicarbonate alkalinity was low in the control and increased with bicarbonate additions. The hardness ranged from <20 to 460 mg/L. Little ferrous iron was detected (0.03 to 0.45 mg/L). Sulfide was low (0 to 0.02 mg/L).

Sulfate ranged from 480 to 600 mg/L. Little DOC was detected; the highest dosage of buffer had the most, 4.8 and 10 mg/L. Total arsenic ranged from <0.00068 to 0.036 mg/L with the 2 g/L KHCO_3 treatment having no detectable arsenic. Dissolved arsenic ranged from <0.00070 to 0.019 mg/L with the 1, 2, 5, and 10 g/L KHCO_3 , and 1 and 2 g/L NaHCO_3 treatments having no detectable dissolved arsenic and the 5 and 10 g/L NaHCO_3 treatments also having dissolved arsenic below the GA GWPS. Total beryllium ranged from <0.00012 to 0.0011 mg/L; the 2 g/L KHCO_3 treatment was below the GA GWPS. Dissolved beryllium ranged from 0.00022 to 0.0099 mg/L with all KHCO_3 and NaHCO_3 treatments below the GA GWPS. Total cobalt was moderate and ranged from <0.00016 to 1.1 mg/L but none of the treatments reached the GA GWPS. The following treatments showed more than 50% reductions in dissolved Co: 5 g/L KHCO_3 , 10 g/L KHCO_3 , 5 g/L NaHCO_3 , and 10 g/L NaHCO_3 but none met the GA GWPS. Total lithium was not detected. Dissolved Li ranged from 0.014 to 0.023 mg/L in the KHCO_3 and NaHCO_3 treatments and were higher than the control. Lithium was below the GA GWPS in all treatments. Selenate and selenite were spiked into the AP-2 and 3/4 DGWC-20 groundwater. Total Se ranged from <0.00028 to 0.50 mg/L and dissolved Se from 0.22 to 0.49 mg/L. Only the 2 g/L KHCO_3 treatment met the GA GWPS for selenium. No treatments reduced the dissolved Se to the GA GWPS however the ZVI treatments did show lower dissolved Se to 0.26 to 0.30 mg/L. Total iron increased in many treatments especially for the ZVI treatments. Total magnesium did not change much except for the 2 g/L KHCO_3 treatment. Total manganese was reduced by >50% in the 2 g/L KHCO_3 , 5 g/L KHCO_3 , 5 g/L NaHCO_3 , and 10 g/L NaHCO_3 treatments. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.,

The 1-10 g/L of both the potassium and sodium bicarbonate treatments showed significant reductions in dissolved arsenic and dissolved beryllium. The higher dosages of 5-10 g/L KHCO_3 and 5-10 g/L NaHCO_3 reduced the dissolved cobalt by more than 50% but not to below the GA GWPS. Total lithium was not detected and dissolved lithium was low. Only the ZVI treatments seemed to impact the dissolved selenium and then by only 25 to 35% reductions with no treatment reaching the GA GWPS.

4.3 AP-2 and 3/4 Conclusions

Table 10 summarizes the percent removals from the initial characterization samples or the Control Day 0 for the dissolved metals of concern across the various treatments and groundwaters. Compounds highlighted in green were reduced to below the GA GWPS by the treatments. Compounds highlighted in yellow were reduced by more than 50%. Lithium was not detected in the AP-2 and 3/4 DGWC-20 IC groundwater; the percent removals highlighted in gray were based upon the dissolved lithium detection limit in the IC samples.



Arsenic. Dissolved As was not detected in AP-2 and 3/4 well DGWC-48. Dissolved As in well DGWC-20 was reduced to below the GA GWPS in all potassium and sodium bicarbonate treatments.

Beryllium. In the AP-2 and 3/4 DGWC-48 and 20 groundwaters, all potassium and sodium bicarbonate levels reduced dissolved Be to below the GA GWPS but the ZVI treatments did not.

Cobalt. The GA GWPS for cobalt is 0.032 mg/L. No treatment reduced the dissolved cobalt to below the GA GWPS in either the AP234 DGWC-48 or DGWC-20 groundwaters.

Lithium. None of the treatments were effective against dissolved lithium in the AP-2 and 3/4 DGWC-48 groundwater. There were only trace levels of dissolved lithium in the AP-2 and 3/4 DGWC-20 groundwater.

Selenium. Selenium was not detected in either the AP-2 and 3/4 DGWC-48 or DGWC-20 initial characterization samples. These groundwaters were spiked with a mixture of sodium selenite (Se^{4+}) and sodium selenate (Se^{6+}) to concentrations of 0.32 to 0.40. mg/L. None of the treatments reduced dissolved Se to below the GA GWPS. Only the highest (1.5 g/L) ZVI reduced dissolved Se from the Control 0 by more than 50% in the AP-2 and 3/4 DGWC-48 groundwater and no treatment reached the 50% threshold in the AP-2 and 3/4 DGWC-20 groundwater.

Overall Conclusions. Addition of relatively high dosages of potassium or sodium bicarbonate buffers were generally able to reach the GA GWPS for arsenic and beryllium and reduce cobalt. Lithium was not effectively treated in the AP-2 and 3/4 DGWC-48 groundwaters. Only the highest dosage of ZVI appeared to reduce selenium by more than 50% in one of the two groundwaters with selenium and no treatment reached the GA GWPS of 0.050 mg/L.

Please let me know if you have any questions about this final report.

Sincerely,
TERRA SYSTEMS, INC.

Michael D Lee, Ph.D.

Michael D. Lee, Ph.D.
Vice-President Research and Development

Table 1
Estimated Sample Volumes and Preservatives

Analysis	Matrix	Volume mL per bottle	Preservative
Total As, Be, Co, Mo, Se, Fe, K, Mn, Mg, and Na (metals based upon contaminants at each site)	Aqueous	200	HNO ₃
Total Li (AP 234 only)	Aqueous	200	HNO ₃
Filtered As, Be, Co, Mo, and Se (metals based upon contaminants at each site)	Aqueous	200	HNO ₃
Filtered Li (AP 234 only)	Aqueous	200	HNO ₃
DOC	Aqueous	45	H ₃ PO ₄
Sulfate	Aqueous	50	None
Total		895	

Table 2
Plant McDonough AP-1 Initial Characterization Field and Hach Parameters

Field Parameters			AP-1 DGWC-69	AP-1 DGWC-68A	AP-1 DGWC-40
Well		GA GWPS			
pH	SU		7.3	6.3	
ORP	mV		167	224	226
DO	mg/L		9.8	10.8	5.5
TSS	mg/L		8.4	13.8	0.8
Bicarbonate Alkalinity as CaCO3	mg/L		60	200	5
Hardness as CaCO3	mg/L		40	120	240
Ferrous Iron	mg/L		0.01	0.01	0.28
Sulfide	mg/L		0	0	0
Sodium Hydroxide Titrations					
g/L NaHCO3	pH				
0			6.4	6.8	4.8
1			7.8	7.5	6.9
2			8.1	7.8	7.3
5			8.2	8.1	7.7
10			8.3	8.2	8.0
Potassium Hydroxide Titrations					
g/L KHCO3					
0			7.1	6.6	4.8
1			8.2	7.2	6.9
2			8.4	7.6	7.2
5			8.4	8.0	7.7
10			8.4	8.2	7.9
Sulfate	mg/L		6	78	190
Dissolved Organic Carbon	mg/L		1.5	1.1	<0.5
Total Arsenic	mg/L	0.010	0.022	<0.00068	
Dissolved Arsenic	mg/L	0.010	0.020	<0.00068	
Total Cobalt	mg/L	0.032			0.039
Dissolved Cobalt	mg/L	0.032			0.038
Total Molybdenum	mg/L	0.10	0.0048	0.22	
Dissolved Molybdenum	mg/L	0.10	0.0058	0.20	
Total Iron	mg/L		0.13	0.049 J	0.039 J
Total Magnesium	mg/L		2.3	18	19
Total Manganese	mg/L		0.027	0.096	3.4
Total Potassium	mg/L		2.4	3.8	6.1
Total Sodium	mg/L		9.5	11	19

0.010 GA GWPS = Georgia Groundwater Performance Standard

Table 3
AP-1 DGWC-69 Treatability Results

		GA GWPS	IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L CaO	2 g/L CaO	5 g/L CaO	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	0.5 g/L FeS	1.0 g/L FeS	2.0 g/L FeS
Day				0	0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			6.6	7.7	8.3	8.5	12.2	12.2	12.0	7.8	7.9	7.1	7.0	6.7	6.9
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		7.3	6.8	7.8	8.1	8.4	11.9	12.0	12.1	8.7	7.7	7.1	6.8	6.5	6.2
ORP	mV		167	191	200	200	206	-76	-75	-60	168	214	233	247	214	108
DO	mg/L		9.8	7.1	7.0	5.7	6.4	7.7	6.6	5.4	6.9	8.0	6.9	4.9	5.2	4.4
TSS	mg/L		8.4	0	1.7	286	12	330	712	2673	265	397	945	234	763	1415
Phenolphthalein Alkalinity as CaCO3	mg/L							1180	9440	11800						
Bicarbonate Alkalinity as CaCO3	mg/L		60	35	1180	2360	4720	13580	50600	<5900	40	200	120	50	60	40
Hardness as CaCO3	mg/L		40	40	40	40	40	200	1480	1820	60	80	60	60	40	40
Ferrous Iron	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.04	<0.01	<0.02	<0.05	<0.05	<0.02	0.35	0.90
Sulfide	mg/L		0	0.03	0.03	0.03	0.05	0.03	0.01	0.06	0.04	0.05	0.02	0.12	0.35	0.15
ELLE Results																
Sulfate	mg/L		6	8.4	9.6	16	18	8.6	16	<15	9.0	9.4	10	11	14	25
Dissolved Organic Carbon	mg/L		1.5	0.68	1.4	2.1	4.9	2.6	0.73	0.79	0.66	1.3	0.93	1.2	0.88	1.4
Total Arsenic	mg/L	0.010	0.022	0.023	0.024	0.025	0.021	0.018	0.023	0.016	0.020	0.023	0.021	0.013	0.0065	0.0086
Dissolved Arsenic	mg/L	0.010	0.020	0.019	0.021	0.024	0.023	<0.00070	<0.00070	<0.00070	<0.00070	0.0014	<0.00070	0.0018	0.00074	0.0010
Total Molybdenum	mg/L	0.10	0.0048	0.0050	0.0050	0.0053	0.0051	0.0053	0.0051	0.0054	0.0080	0.0096	0.0092	0.0043	0.0035	0.0034
Dissolved Molybdenum	mg/L	0.10	0.0058	0.0050	0.0049	0.0050	0.0049	0.0057	0.0047	0.0040	0.00025	0.0013	0.00017	0.0045	0.0035	0.0024
Total Iron	mg/L		0.13	<0.020	0.070	0.052	0.055	0.41	0.83	1.2	190	280	440	16	18	180
Total Magnesium	mg/L		2.3	2.1	2.2	2.2	2.1	3.4	6.3	12	2.2	2.4	2.3	2.2	2.1	2.8
Total Manganese	mg/L		0.027	0.0092	0.049	0.049	0.073	0.087	0.047	0.084	0.11	0.14	0.20	0.11	0.097	0.23
Total Potassium	mg/L		2.4	2.5	740	2000	3800	3.7	3.7	3.9	4.4	2.6	2.6	2.7	2.2	2.3
Total Sodium	mg/L		9.5	9.1	12	15	19	12	12	10	9.4	9.9	15	11	9.1	11

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039

J value. Compound detected above method detection limit but below method calibration limit.

28

Compound detected in blank

Table 4
AP-1 DGWC-68A Treatability Results

		GA GWPS	IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L CaO	2 g/L CaO	5 g/L CaO	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	0.5 g/L FeS	1.0 g/L FeS	2.0 g/L FeS
Day				0	0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			6.6	7.7	8.3	8.5	12.2	12.2	12.0	7.8	7.9	7.1	7.0	6.7	6.9
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		6.3	6.5	7.4	6.5	8.0	11.6	11.7	11.9	8.1	6.9	6.7	6.5	6.4	6.4
ORP	mV		224	249	240	268	251	4	-8	-38	243	258	259	277	266	215
DO	mg/L		10.8	9.1	8.4	7.7	7.9	9.0	8.6	8.2	9.1	8.5	8.6	5.8	4.2	3.5
TSS	mg/L		13.8	0.9	1.8	8.3	21	694	758	2530	133	357	236	152	388	248
Phenolphthalein Alkalinity as CaCO3	mg/L							7080	4720	11800						
Bicarbonate Alkalinity as CaCO3	mg/L		200	180	940	480	4240	<2360	<4720	<11800	240	240	240	240	200	160
Hardness as CaCO3	mg/L		120	220	220	220	120	800	1660	1700	220	220	220	220	200	200
Ferrous Iron	mg/L		0.01	0.12	0.13	0.15	0.01	0.02	0.06	0.03	0.04	0.06	0.06	0.06	0.04	0.06
Sulfide	mg/L		0	0.02	0.01	0.02	<0.01	0.02	<0.01	0.04	0.03	<0.01	<0.01	0.02	0.01	0.10
ELLE Results																
Sulfate	mg/L		78	39	40	37	49	34	34	33	38	38	40	40	45	54
Dissolved Organic Carbon	mg/L		1.1	0.94	1.2	0.89	7.8	1.2	0.82	1.0	0.80	0.92	0.77	0.88	0.78	0.83
Total Arsenic	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	0.0012	0.0013	0.0024	0.0023	<0.00068	<0.00068	<0.00068
Dissolved Arsenic	mg/L	0.010	<0.00068	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
Total Molybdenum	mg/L	0.10	0.0048	0.21	0.21	0.21	0.19	0.19	0.20	0.19	0.12	0.099	0.026	0.17	0.12	0.088
Dissolved Molybdenum	mg/L	0.10	0.0058	0.21	0.20	0.20	0.20	0.19	0.18	0.17	0.11	0.079	0.031	0.17	0.12	0.097
Total Iron	mg/L		0.13	0.041	0.090	0.14	0.22	0.20	0.59	1.6	44	110	78	44	86	680
Total Magnesium	mg/L		2.3	18	17	18	18	10	21	30	19	19	19	19	19	20
Total Manganese	mg/L		0.027	0.083	0.084	0.088	0.039	0.055	0.11	0.17	0.10	0.12	0.10	0.18	0.25	0.66
Total Potassium	mg/L		2.4	4.0	810	4.2	3800	4.7	3.8	5.1	4.3	4.2	4.0	3.9	4.0	4.0
Total Sodium	mg/L		9.5	9.9	11	10	19	9.1	17	10	10	10	9.9	9.7	9.7	9.6

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039

28

J value. Compound detected above method detection limit but below method calibration limit.

Compound detected in blank

Table 5
AP-1 DGWC-40 Treatability Results

		GA GWPS	IC	Control	1 g/L KHCO ₃	2 g/L KHCO ₃	5 g/L KHCO ₃	10 g/L KHCO ₃	1 g/L NaHCO ₃	2 g/L NaHCO ₃	5 g/L NaHCO ₃	10 g/L NaHCO ₃	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI
Day				0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			4.8	6.9	7.2	7.7	8.1	6.8	6.6	7.2	8.0	5.6	6.4	5.1
Day				7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.6	4.6	6.5	7.1	7.7	8.0	6.3	7.7	7.3	7.9	6.1	5.7	6.0
ORP	mV		226	256	239	230	230	227	183	164	185	175	241	147	-335
DO	mg/L		5.5	4.9	4.2	4.9	4.8	4.8	5.0	5.3	4.9	4.5	5.4	4.3	1.4
TSS	mg/L		0.8	2.8	1.3	6.2	7.5	4.1	0	3.6	4.2	8.2	17	59	102
Bicarbonate Alkalinity as CaCO ₃	mg/L		5	0	420	600	1900	4180	640	2440	1140	4940	5	15	35
Hardness as CaCO ₃	mg/L		240	240	200	200	220	200	200	200	200	180	200	220	200
Ferrous Iron	mg/L		0.28	0.14	0.1	<0.01	0.05	0.07	0.08	0.04	<0.01	0.08	0.11	1.43	9.0
Sulfide	mg/L		0	0.02	0.05	0.05	0.05	0.15	0.03	0.07	0.05	0.17	0.05	0.05	0.05
ELLE Results															
Sulfate	mg/L		190	210	210	210	210	210	220	220	210	230	210	220	210
DOC	mg/L		<0.5	<0.5	2.1	0.96	1.3	3.2	0.9	1.7	1.0	1.9	0.52	0.56	<0.5
Total Cobalt	mg/L	0.032	0.039	0.039	0.038	0.042	0.039	0.039	0.039	0.040	0.039	0.038	0.044	0.040	0.035
Dissolved Cobalt	mg/L	0.032	0.038	0.042	0.037	0.038	0.037	0.036	0.037	0.039	0.037	0.034	0.038	0.037	0.025
Total Iron	mg/L		0.039	<0.023	0.2	0.096	0.086	0.25	0.14	0.059	0.15	0.44	20	54	100
Total Magnesium	mg/L		19	19	19	19	20	18	19	20	19	19	20	18	18
Total Manganese	mg/L		3.4	3.5	3.4	3.8	3.6	3.4	3.4	3.3	3.5	3.1	4	3.6	3.5
Total Potassium	mg/L		6.1	6.0	350	710	1900	3700	5.9	8.0	8.2	1900	6.4	6.2	7.3
Total Sodium	mg/L		19	20	22	21	26	28	250	1400	590	2900	20	21	19

0.010 GA GWPS = Georgia
Groundwater Performance Standard

28

Compound detected in blank

Table 6
AP-1 Percent Removal from Initial Characterization for Dissolved Metals

Well	Dis Metal	GA GWPS	IC/Con 0 Conc mg/L	% Rem from IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L CaO	2 g/L CaO	5 g/L CaO	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	0.5 g/L FeS	1.0 g/L FeS	2.0 g/L FeS
DGWC-69	As	0.010	0.020	% Rem from IC	5.0	-5.0	-20.0	-15.0	>96.5	>96.5	>96.5	>96.5	93.0	>96.5	91.0	96.3	95
	Mo	0.10	0.0058	% Rem from IC	13.8	15.5	13.8	15.5	1.7	19.0	31.0	95.7	77.6	97.1	22.4	39.7	58.6
DGWC-68A	As	0.010	<0.00068	% Rem from IC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mo	0.10	0.0058/0.21	% Rem from Con 0	0.0	4.8	4.8	4.8	9.5	14.3	19.0	47.6	62.4	85.2	19.0	42.9	53.8
Well	Dis Metal	GA GWPS	IC/Con 0 Conc mg/L	% Rem from IC	Control	1 g/L KHCO3	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L NaHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI	
DGWC-40	Co	0.032	0.038	% Rem from IC	-10.5	2.6	0.0	2.6	5.3	2.6	-2.6	2.6	10.5	0.0	2.6	34.2	

>96.5 Dissolved metal reduced to below GA GWPS
95.7 Dissolved metal reduced by more than 50%

Table 7
Plant McDonough AP-2 and 3/4 Initial Characterization Field and Hach Parameters

Well		GA GWPS	AP-2 and 3/4 DGWC-48	AP-2 and 3/4 DGWC-20
pH	SU		4.0	4.4
ORP	mV		388	423
DO	mg/L		11.2	9.6
TSS	mg/L		0	6.6
Bicarbonate Alkalinity as CaCO3	mg/L		0	<5
Hardness as CaCO3	mg/L		20	0
Ferrous Iron	mg/L		2.52	0.07
Sulfide	mg/L		0	0
Sodium Hydroxide Titrations				
g/L NaHCO3	pH			
0			4.5	5.0
1			7.5	7.3
2			7.8	7.7
5			8.1	8.0
10			8.2	8.1
Potassium Hydroxide Titrations				
g/L KHCO3				
0			4.0	4.5
1			7.1	7.0
2			7.6	7.4
5			8.0	7.9
10			8.2	8.1
Sulfate	mg/L		520	490
Dissolved Organic Carbon	mg/L		0.97 J	0.71 J
Total Arsenic	mg/L	0.010	<0.00068	0.014
Dissolved Arsenic	mg/L	0.010	<0.00068	0.016
Total Beryllium	mg/L	0.004	0.0073	0.0079
Dissolved Beryllium	mg/L	0.004	0.0083	0.0086
Total Cobalt	mg/L	0.032	0.35	1.00
Dissolved Cobalt	mg/L	0.032	0.33	0.96
Total Lithium	mg/L	0.040	0.11	<0.055
Dissolved Lithium	mg/L	0.040	0.10	<0.055
Total Selenium	mg/L	0.050	<0.00028	<0.00028
Dissolved Selenium	mg/L	0.050	<0.00028	<0.00028
Total Iron	mg/L		3.9	0.12
Total Magnesium	mg/L		16	26
Total Manganese	mg/L		13	42
Total Potassium	mg/L		14	14
Total Sodium	mg/L		23	24

0.010 GA GWPS = Georgia Groundwater Performance Standard

Table 8
AP-2 and 3/4 DGWC-48 Treatability Results

		GA GWPS	IC	Control	1 g/L KHCO3	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L NaHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI
Day				0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			4.2	6.9	7.3	7.8	8.1	7.1	7.4	7.8	8.0	5.6	6.5	5.4
Day				7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.0	5.8	6.9	7.3	7.8	8.0	7.2	7.4	7.7	7.9	6.4	5.1	5
ORP	mV		388	351	247	237	213	210	192	166	160	165	160	112	59
DO	mg/L		11.2	8.8	8.2	8.3	7.5	8.2	8.8	7.4	8.5	7.9	5.5	7.4	3.4
TSS	mg/L		0	97	12	13	12	118	16	11	27	120	22	67	150
Bicarbonate Alkalinity as CaCO3	mg/L		0	5	480	940	2120	4340	600	1180	2760	5300	10	5	5
Hardness as CaCO3	mg/L		20	<20	<20	<20	160	220	<20	<20	220	110	20	<20	220
Ferrous Iron	mg/L		2.52	0.32	0.12	0.04	<0.02	0.02	0.04	<0.02	0.02	0.10	0.15	<0.10	0.75
Sulfide	mg/L		0	0.01	0.04	0.05	0.03	0.03	0.04	0.07	0.02	0.02	0.04	0.06	0.09
ELLE Results															
Sulfate	mg/L		520	380	350	350	360	380	350	360	340	330	400	400	370
DOC	mg/L		0.97	1.1	1.1	1.4	1.8	9.0	1.2	1.5	2.4	11	0.81	0.85	0.79
Total Arsenic	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.0014	0.00085	0.0060	0.0011
Dissolved Arsenic	mg/L	0.010	<0.00068	<0.00070	<0.00070	<0.00070	<0.00070	<0.00068	<0.00070	<0.00070	<0.00070	<0.00068	<0.00070	<0.00070	<0.00070
Total Beryllium	mg/L	0.0040	0.0073	0.0073	0.0072	0.0065	0.0073	0.0054	0.0060	0.0064	0.0060	0.0050	0.0067	0.0064	0.0052
Dissolved Beryllium	mg/L	0.0040	0.0083	0.0071	0.0012	0.0017	0.0015	0.00085	0.0015	0.0023	0.0023	0.0026	0.0068	0.0057	0.0046
Total Cobalt	mg/L	0.032	0.35	0.34	0.33	0.33	0.32	0.24	0.33	0.33	0.27	0.17	0.33	0.34	0.28
Dissolved Cobalt	mg/L	0.032	0.33	0.35	0.33	0.33	0.32	0.12	0.32	0.31	0.20	0.14	0.31	0.34	0.28
Total Lithium	mg/L	0.040	0.11	0.11	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.12
Dissolved Lithium	mg/L	0.040	0.10	0.099	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.11	0.10	0.10	0.11
Total Selenium	mg/L	0.050	<0.00028	0.39	0.50	0.45	0.45	0.52	0.45	0.50	0.51	0.46	0.22	0.31	0.17
Dissolved Selenium	mg/L	0.050	<0.00028	0.32	0.42	0.42	0.44	0.42	0.45	0.45	0.46	0.44	0.18	0.24	0.14
Total Iron	mg/L		3.9	0.43	1.5	0.84	1.2	0.83	0.64	0.87	0.72	0.44	11	120	19
Total Magnesium	mg/L		16	16	15	15	15	15	15	15	15	15	16	16	15
Total Manganese	mg/L		13	13	12	12	12	8.7	12	12	8.2	5.3	14	13	13
Total Potassium	mg/L		14	14	370	760	1900	4600	16	15	14	17	14	14	13
Total Sodium	mg/L		23	23	22	24	27	32	280	560	1200	3200	23	23	21

0.010 GA GWPS = Georgia Groundwater
Performance Standard

0.039

J value. Compound detected above method detection limit but below method calibration limit.

28

Compound detected in blank

Table 9
AP-2 and 3/4 DGWC-20 Treatability Results

		GA GWPS	IC	Control	1 g/L KHCO3	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L NaHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI
Day				0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			4.5	6.8	7.3	7.8	8.0	7.7	7.3	7.7	7.9	6.4	6.3	5.2
Day				7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.4	5.3	6.7	7.2	7.4	7.7	6.9	7.2	7.4	7.6	6.2	4.7	4.3
ORP	mV		423	297	290	280	278	269	222	200	205	207	164	163	185
DO	mg/L		9.6	7.8	7.2	7.3	7.2	6.9	7.0	7.1	6.7	6.8	7.5	7.3	6.8
TSS	mg/L		6.6	2.6	11	29	94	243	12	5.2	384	808	74	116	103
Bicarbonate Alkalinity as CaCO3	mg/L		<5	10	400	820	2120	4720	590	940	4720	5900	5	5	5
Hardness as CaCO3	mg/L		<20	<20	<20	<20	220	220	<20	340	460	230	<20	<20	<20
Ferrous Iron	mg/L		0.07	0.14	0.16	0.13	0.07	0.04	0.03	0.05	0.09	0.09	0.12	0.08	0.45
Sulfide	mg/L		0	0	0	0	0	0	0.01	0.02	0.01	0.02	0	0	0.01
ELLE Results															
Sulfate	mg/L		490	480	500	510	510	580	500	510	520	600	510	500	500
Dissolved Organic Carbon	mg/L		0.71	0.50	1.3	1.4	2.0	4.8	1.3	1.5	3.2	10	0.91	0.81	0.71
Total Arsenic	mg/L	0.010	0.014	0.016	0.023	<0.00068	0.022	0.017	0.021	0.036	0.014	0.0080	0.026	0.027	0.032
Dissolved Arsenic	mg/L	0.010	0.016	0.018	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	0.0011	0.00077	0.019	0.018	0.017
Total Beryllium	mg/L	0.004	0.0079	0.0071	0.0070	<0.00012	0.0073	0.0071	0.0064	0.011	0.0048	0.0041	0.0070	0.0070	0.0065
Dissolved Beryllium	mg/L	0.004	0.0086	0.0080	0.00053	0.00037	0.00026	0.00022	0.00045	0.00022	0.00045	0.00025	0.0072	0.0099	0.0068
Total Cobalt	mg/L	0.032	1.00	1.0	1.0	<0.00016	0.69	0.69	1.0	1.1	0.51	0.43	1.0	1.0	0.98
Dissolved Cobalt	mg/L	0.032	0.96	1.1	0.96	0.90	0.44	0.24	0.92	0.90	0.38	0.23	1.1	1.0	1.0
Total Lithium	mg/L	0.040	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055
Dissolved Lithium	mg/L	0.040	<0.055	<0.057	0.015	0.015	0.016	0.023	0.014	0.017	0.018	0.019	<0.057	<0.057	<0.057
Total Selenium	mg/L	0.050	<0.00028	0.40	0.45	<0.00028	0.45	0.44	0.47	0.50	0.44	0.46	0.30	0.29	0.26
Dissolved Selenium	mg/L	0.050	<0.00028	0.38	0.45	0.46	0.40	0.45	0.45	0.49	0.45	0.47	0.27	0.24	0.22
Total Iron	mg/L		0.12	0.082	0.19	<0.020	0.14	0.21	0.16	0.31	0.12	0.087	43	90	200
Total Magnesium	mg/L		26	29	25	<0.016	27	25	25	26	25	26	25	26	25
Total Manganese	mg/L		42	38	37	<0.00095	18	26	37	38	9.8	12	37	37	37
Total Potassium	mg/L		14	15	420	<0.065	2000	3800	16	15	16	19	14	14	14
Total Sodium	mg/L		24	24	23	<0.090	26	33	310	600	1500	2700	22	22	22

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039

J value. Compound detected above method detection limit but below method calibration limit.

28

Compound detected in blank

Table 10
AP-2 and 3/4 Percent Removal from Initial Characterization for Dissolved Metals

		GA GWPS	IC (mg/L)														
DGWC-48	As	0.010	<0.00068	% Rem from IC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Be	0.0040	0.0083	% Rem from IC	14.5	85.5	79.5	81.9	89.8	81.9	72.3	72.3	68.7	18.1	31.3	44.6	
	Co	0.032	0.33	% Rem from IC	-6.1	0.0	0.0	3.0	63.6	3.0	6.1	39.4	57.6	6.1	-3.0	15.2	
	Li	0.040	0.10	% Rem from IC	1.0	-10.0	-10.0	-10.0	-10.0	-10.0	-20.0	-30.0	-10.0	0.0	0.0	-10.0	
	Se	0.050	<0.00028/ 0.32	% Rem from Con 0	0.0	-31.3	-31.3	-37.5	-31.3	-40.6	-40.6	-43.8	-37.5	43.8	25.0	56.3	
DGWC-20	As	0.010	0.016	% Rem from IC	-12.5	>95.6	>95.6	>95.6	>95.6	>95.6	>95.6	93.1	95.2	-18.8	-12.5	-6.3	
	Be	0.0040	0.0086	% Rem from IC	7.0	93.8	95.7	97.0	97.4	94.8	97.4	94.8	97.1	16.3	-15.1	20.9	
	Co	0.032	0.96	% Rem from IC	-14.6	0.0	6.2	54.2	75.0	4.2	6.2	60.4	76.0	-14.6	-4.2	-4.2	
	Li	0.040	<0.055	% Rem from IC		72.7	72.7	70.9	58.2	74.5	69.1	67.3	65.5				
	Se	0.050	<0.00028/ 0.38	% Rem from Con 0	0.0	-18.4	-21.1	-5.3	-18.4	-18.4	-28.9	-18.4	-23.7	28.9	36.8	42.1	

NA	Not applicable
>96.5	Dissolved metal reduced to below GA GWPS
95.7	Dissolved metal reduced by more than 50%
72.7	Percent removal from detection method limit



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APPENDIX G

Alternate Source Demonstration for Radium

REPORT

**Alternate Source Demonstration for Combined Radium
*Plant McDonough-Atkinson Ash Pond 2 and 3/4***

Submitted to:



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April 29, 2022, Revision 1, July 26, 2022



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Appendix

APPENDIX A:	SOIL BORING & WELL CONSTRUCTION LOGS
APPENDIX B:	ANALYTICAL LABORATORY REPORTS
APPENDIX C:	GROUNDWATER SAMPLING FIELD DATA SHEETS

Certification

This *Alternate Source Demonstration for Combined Radium*, Georgia Power Company Plant McDonough-Atkinson, Ash Pond 2 and 3/4, has been prepared in compliance with applicable United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and Georgia Environmental Protection Division Rule 391-3-4-.10(6)(a-c) under the direction of a licensed professional engineer with Golder Associates USA Inc.

I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g) and that this Alternate Source Demonstration for Radium 226+228 has been prepared to meet the requirements of 40 CFR §257.95(g)(3)(ii) and Georgia Environmental Protection Division Rule 391-3-4-.10(6)(a-c).

Golder Associates USA Inc.



P.J. Nolan, PhD
Lead Geochemist



Dawn L. Prell, CPG
Senior Hydrogeologist

I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g) and that this Alternate Source Demonstration, Georgia Power Company Plant McDonough-Atkinson, located at 5551 S. Cobb Drive, Smyrna, Georgia, has been prepared to meet the requirements of 40 CFR §257.95(g)(3)(ii).



Todd Rees, PhD, PE
Georgia Registered Professional Engineer No. 047845

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) (CCR Rule or The Rule), this Alternate Source Demonstration (ASD), Plant McDonough Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4) has been prepared to document an alternate source for Statistically Significant Levels (SSLs) of combined radium (radium 226 + 228) identified at Georgia Power Company's Plant McDonough AP-2 and 3/4 (Site) during assessment monitoring. An SSL for combined radium at assessment monitoring well B-104D was reported in the recent (2021) Semi-Annual Monitoring and Corrective Action Report submitted to Georgia (GA) Environmental Protection Division (EPD) on February 28, 2022.

This document satisfies the requirements of § 257.95(g)(3)(ii) and § 391-3-4-.14(23)(c) which allows the owner or operator within 90 days to demonstrate that a source other than the CCR Unit has caused an SSL. In addition to the SSL at B-104D, reported concentrations at B-109D, B-111D and B-115D for combined radium are greater than the GWPS; however, an SSL has not yet been identified since the wells have not yet been sampled four times.

This ASD presents the results of an investigation performed to evaluate the presence of naturally occurring radionuclides, present throughout the region and sitewide in the rock materials underlying AP-1 and AP-2, 3/4 at Plant McDonough. Multiple lines of evidence supporting this demonstration are as follows:

- Groundwater results for the shallow monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.
- Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.
- The wells with elevated radium concentrations show low levels of CCR indicator parameters.
- Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.
- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

2.0 SITE DESCRIPTION AND BACKGROUND

Plant McDonough, a natural gas power plant converted in 2012 from a coal-fired power plant, is located in southeast Cobb County, Georgia near the Fulton County line, and is owned and operated by the Georgia Power Company. The Plant is located approximately 7 miles northwest of Atlanta, Georgia, and is surrounded primarily by industrial and residential land use. The property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River. The Plant owns a small portion of land south of the river. Figure 1 presents the location of Plant McDonough relative to local topography and surrounding features. Figure 2 shows the location of on-site monitoring wells and piezometers. Figure 3 presents a lithological cross-section through the deeper bedrock wells.

2.1 Geological Setting

The Site is situated in the Piedmont province, in a regional zone of geologic deformation, referred to as the Brevard Zone, that extends from Alabama to Virginia. The plant property northwest of the faulted contact is

underlain by the Long Island Creek Gneiss, which is a medium- to coarse-grained felsic rock. Near faults and shear zones, the gneiss is locally intruded by another felsic rock, i.e., granitic pegmatites (borehole logs indicating the presence of pegmatites at the Site are presented in Appendix A). Pegmatites are coarse-grained igneous rocks formed in the late stage of magma crystallization and noted for their high textural and compositional variability and enrichment of trace elements such as uranium, thorium, rare-earth elements, etc. (Adams et al. 1980). Numerous studies (as detailed in Section 5.0) have evaluated the presence of the radionuclides radium, uranium, and thorium in aquifer solids and groundwater in principal aquifers in the US and abroad (e.g., Chapman et al. 2013; Ranger 1995; Rosson et al. 1991; Szabo et al. 2012; Stackelberg et al. 2018; Vinson et al. 2013) and specifically in Georgia, granite and gneiss aquifers in the Piedmont were identified to have the highest concentrations of naturally occurring radionuclides (Coker and Olive 1989).

Uranium and thorium are naturally occurring in the soils, rock, and groundwater of the aquifers in the U.S. at varying levels and decay to form radium (Hem 1990; Langmuir 1994; Nolan et al. 2021). Felsic rock types, i.e., rock types containing abundant silicate minerals such as feldspar and quartz, are naturally enriched in uranium and thorium, the parent elements of radium. For reference, average uranium and thorium concentrations in the earth's crust are 3 and 10 milligrams per kilogram (mg/kg). In basalt (a mafic rock) uranium and thorium average 0.6 and 2.2 mg/kg, respectively, and in granite (a felsic rock) 4.8 and 17 mg/kg, respectively (Smith and Huyck 1999). Concentrations of daughter elements such as radium show a similar distribution between the various material types.

2.2 Hydrogeological Setting

A regional, unconfined surficial aquifer system is present at the Site, existing within the overburden and weathered and fractured upper bedrock (i.e., approximately the first 30 feet), depending on topographic location. Recharge primarily occurs through precipitation and subsequent infiltration. Generally, groundwater flow occurs through intergranular pore spaces in the overburden and is controlled by topography and top of rock variations. However, a relatively higher transmissive zone is interpreted to occur at the base of the overburden, at the interface of weathered bedrock and competent bedrock and is believed to be the primary groundwater flow path.

A limited and localized bedrock aquifer system also occurs beneath the Site. The upper bedrock is fractured and weathered, connected hydraulically with the overburden groundwater, and is considered part of the uppermost aquifer. The overlying silt/clay-rich overburden may act to retard recharge into the bedrock aquifer system. However, deeper bedrock (i.e., approximately greater than 30 feet into the bedrock) is unweathered with few discontinuities (e.g., fractures) available to store groundwater.

3.0 STATISTICAL ANALYSES METHODS

The monitoring well networks at both groundwater monitoring units (AP-1, and AP-2 and 3/4) at Plant McDonough are in assessment monitoring and are currently performing an assessment of corrective measures for groundwater impacts at the site. During assessment monitoring, concentrations of Appendix IV constituents are compared to an applicable GWPS. As specified in 40 CFR §257.95(h), the GWPS is the Maximum Contaminant Level (MCL) or the background concentration for constituents for which an MCL has not been established. Because site-specific background for combined radium (5.61 pCi/L) is greater than the MCL (5 pCi/L), the GWPS at the Site is the site background of 5.61 pCi/L.

3.1 Statistically Significant Levels

Review of the statistical analysis results indicates that using the GWPS established according to both 40 CFR §257.95(h) and 391-3-4-.10(6)(a), an SSL for combined radium was identified at B-104D. A notice of SSL exceedances was placed in the operating record and submitted to EPD on January 31, 2022. Several additional wells summarized in Table 1 also have concentrations of combined radium above the established GWPS; however, an SSL has not been identified to date. These wells were installed for delineation of inorganic constituents and do not have sufficient data to perform statistical analyses at this time.

Table 1. Plant McDonough Ash Pond Elevated Combined Radium Concentrations

Appendix IV Parameter	Plant McDonough Ash Pond Monitoring Well	Result ^[1] (pCi/L)	GWPS (pCi/L)
Combined Radium	B-104D	9.6 - 17.0	5.61
Combined Radium	B-109D	11.8 – 12.1	5.61
Combined Radium	B-111D	4.39 - 12.3	5.61
Combined Radium	B-115D	11.9 - 14.7	5.61

[1] Between two and four samples are available for each of the identified monitoring wells. The range of concentration is given.

4.0 CHARACTERIZATION OF AQUIFER MATERIALS

Aquifer solids were retrieved from cores originally collected during monitoring well installation in December 2020 through April 2021. The aquifer materials were analyzed by Pace Analytical Services, LLC for radium parent elements uranium and thorium as well as radium, using EPA Method 901.1: Gamma Emitting Radionuclides in Drinking Water. The analytical results are attached as Appendix B and presented in Table 3 in Section 5.4. The isotopes for the elements tested included:

- Uranium: U-235 and U-238
- Radium: Ra-226 and Ra-228
- Thorium: Th-232 and Th-234.

5.0 ALTERNATE SOURCE DEMONSTRATION

Multiple lines of evidence support the conclusion that the reported concentrations of combined radium in groundwater in deep/bedrock delineation wells B-104D, B-109D, B-111D, and B-115D at the Site are not the result of a release from the CCR Unit but rather are naturally occurring due to decay of uranium and thorium from the aquifer solids (i.e., bedrock) and is regionally present. This demonstration is based on the following lines of evidence that strongly support the natural occurrence of radium in groundwater at the Site:

- 1) Groundwater samples from the shallow detection monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.
- 2) Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.
- 3) The wells with elevated radium concentrations show no correlation with CCR indicator parameters.

- 4) Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.
- 5) Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

Each of these lines of evidence is supported by geochemical characterization of aquifer solids, analysis of groundwater samples and review of published data, as discussed in detail in the sections that follow.

1) Groundwater results for the shallow monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.

The combined radium concentrations in samples from shallow wells at the waste boundary located immediately adjacent to the delineation wells with elevated combined radium concentrations, range from 1.15 to 2.36 pCi/L (Table 2). For comparison, combined radium concentrations in samples from the deeper bedrock wells with SSLs and/or elevated combined radium concentrations range from 4.39 to 17.0 pCi/L (Table 1). In each case, the shallow monitoring well is screened in the uppermost unconfined aquifer, in closer proximity to the Ash Ponds, than the deeper delineation wells at which the elevated combined radium concentrations were noted. Site wide, no detection monitoring network well has reported a combined radium SSL since the start of monitoring in 2016. Only the deep vertical delineation wells screened in bedrock, which were installed to delineate constituents other than combined radium, have shown SSLs for combined radium. Additionally, the paired wells groundwater elevations reflect a vertically downward gradient (Figure 4), which indicates groundwater movement from shallow to deeper groundwater zones, further supporting that the elevated combined radium concentrations at the deep delineation wells are not a result of a release from the Ash Ponds.

Table 2: Combined Radium Concentrations at Shallow Wells Adjacent to Deep Delineation Wells Where Elevated Combined Radium Concentrations are Noted

Deep Well	Nearest Shallow Detection Monitoring Well	Sample Date	Combined Radium Results (pCi/L)
B-104D	DGWC-48	09/10/2021	2.21
B-109D	DGWC-2	09/09/2021	1.22U
B-111D	DGWC-5	09/10/2021	1.15
B-115D	B-57	01/15/2021	2.36

2) Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.

Groundwater with a long residence time in a rock matrix can develop relatively high concentrations of radionuclides due to decay of parent elements. With continued extraction of that water, radionuclide concentrations tend to decline as the formation of the daughter elements cannot ‘keep up’ with further groundwater extraction. This is generally consistent with the elevated measurements in the first samples collected immediately after well installation, followed by a decline in concentrations upon subsequent sampling events. Combined radium concentrations at each of the four wells described above (B-104D, B-109D, B-111D, and B-115D) have exhibited considerable decline in concentration since the initial sampling (Figure 5). In the case of well B-111D, the combined radium concentration was below the GWPS for the Site during the most recent

sampling event (9/14/2021) at 4.39 pCi/L. Should the aquifer conditions change or become more stagnant, radium concentrations may gradually increase again due to the ongoing natural uranium and thorium decay. Based on this key line of evidence, the combined radium observed in groundwater at the deep delineation wells is due to residence time in the rock matrix and not due to release from the Ash Ponds.

3) The wells with elevated radium concentrations show no correlation with CCR indicator parameters.

The concentrations of typical CCR associated parameters, such as boron, are low (<0.69 mg/L) in the deep delineation wells; concentrations are more than three times lower than the average concentration at shallower monitoring wells (Figure 3; Golder 2022). Historically, the deep delineation wells also have reported, on average, lower total dissolved solids (TDS) and sulfate concentrations, indicating no apparent CCR influence. Exceptions are a slightly higher TDS and sulfate concentration noted at B-104D, but like all other deep wells, groundwater in B-104D is calculated to remain undersaturated with respect to sulfate minerals such as gypsum. Well B-104D also reports lower boron and much higher combined radium concentrations as compared to the shallow adjacent well DGWC-48. Thus, the observed geochemical variability in TDS and sulfate concentrations in groundwater is related to water rock interactions in the heterogeneous subsurface lithological composition.

Since 2016, the observed groundwater pH in site-wide (shallow and deep) groundwater at Plant McDonough has ranged from 3.8 to 8.6 and the oxidation reduction potential (ORP) from -112 to +592 millivolt's (mV), respectively. Under these conditions, boron and sulfate are conservative tracers of CCR or the Ash Ponds, with very low to low partitioning coefficients of 0.0 L/kg (boron) and 0.19 to 1.3 L/kg (sulfate; depending on sorbent content; Strenge and Peterson 1989). Generally, dissolved oxygen (DO) and ORP are lower in the deep delineation wells (except DO at B-109D; however, the ORP was still reducing (-83.2 mV), and DO values at prior and subsequent sampling events were low (i.e., <0.65 mg/L), indicating a likely field measurement error during the September 2021 sampling campaign. This is further supported by the January 2022 sampling event where DO at B-109D was reported at 0.28 mg/L. Field sample forms presenting this field data are included in Appendix C.

In contrast, radium in groundwater forms a charged divalent cation (Ra^{+2}) which has been shown to effectively adsorb on metal hydroxides at a groundwater pH range of 4 to 10 and also co-precipitate readily with minerals such as barite (Sajih et al. 2014). For a groundwater pH range of 5 to 9, the partitioning coefficient of radium is between 24.3 to 124.0 L/kg depending on sorbent content, indicating radium will not act conservatively in typical groundwater systems (Strenge and Peterson 1989). Therefore, it is geochemically improbable for radium to travel from an Ash Pond to a deep delineation well without being accompanied by the conservative CCR tracers such as boron and sulfate. It should also be noted that elevated radium levels in the deep wells due to a release from the CCR Unit are unlikely to occur without corresponding elevated levels in the adjacent shallow wells. As described above, no radium SSLs have been noted in overburden wells at the site throughout the monitoring history.

4) Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.

Elevated groundwater concentrations of decay products such as radium typically are related to elevated concentrations of parent elements in associated aquifer solids. Total uranium and thorium concentrations at the four deep bedrock aquifer samples taken from site range from 0.263 to 46.2 mg/kg and non-detect (<138) to 375 mg/kg, respectively (Table 3). The concentrations of uranium in two of the four samples and thorium in all four samples are well above the average crustal rock concentrations of 3 and 10 mg/kg, respectively, and also above the average concentrations in granitic rocks, which are naturally elevated in uranium (17 mg/kg) and thorium (4.8 mg/kg) relative to many other rock types, as reported in a compilation of crustal rock concentrations by Smith and

Huyck (1999). As such, the parent elements for radium are present at elevated levels in Site samples (and in the region, based on literature in line of evidence #5) relative to average concentrations for crustal and felsic rocks, demonstrating the presence of a natural source for radium at the Site.

Table 3. Occurrence of Total Uranium, Thorium and Radium in Core Samples ¹

Well ID ²	Core Depth (ft)	Total Radium (mg/kg)	Total Uranium (mg/kg)	Total Thorium (mg/kg)
B-104D	56.5-57'	2.10 x10 ⁻⁰⁶	46.2	282
B-109D	92.5-93'	1.07 x10 ⁻⁰⁶	15.7	<138 ³
B-111D	82-82.5'	1.30 x10 ⁻⁰⁶	0.263	375
B-115D	70.9-71.4'	1.53 x10 ⁻⁰⁶	2.92	239

¹Note: Concentrations converted from activities for comparison to average abundances by rock type

²Note: Core samples collected from screened intervals at each of the identified locations

³Note: Minimum Detectable Concentration (MDC) estimated for thorium based on the activity method blank.

5) Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

As noted in Section 2.1, numerous studies have evaluated the presence of the radionuclides radium, uranium, and thorium in aquifer solids and groundwater in principal aquifers in the US and abroad (e.g., Chapman et al. 2013; Ranger 1995; Rosson et al. 1991; Szabo et al. 2012; Stackelberg et al. 2018; Vinson et al. 2013). Highlights of several of these papers are presented in the next paragraphs.

In Rosson et al. (1991), the authors showed evaluated radium and uranium levels in public water systems in Georgia. They concluded that the observed radium and uranium levels in public water systems were related to geologic conditions, with the highest levels occurring in groundwater from the Piedmont physiographic region. Albertson (2003) also found that out of 955 samples from public water supplies in the Piedmont, Blue Ridge, and Coastal Plains physiographic provinces, regionally, 476 (49.8%) samples had a combined radium level greater than 5 pCi/L, demonstrating widespread natural occurrence of radium in groundwater above the MCL¹ (Figure 6). Specifically, in Georgia, granite and gneiss aquifers in the Piedmont were identified to have the highest concentrations of naturally occurring radionuclides of any other aquifer types in the state (Coker and Olive 1989).

Radon, a gas byproduct of radium decay, is prevalent in the greater Atlanta area (Ranger 1995). Granites and faulted areas of high metamorphism produced the highest levels of radon in homes, with gneisses of granitic origin being of particular concern. This includes the Brevard Zone, the regional geologic zone in which Plant McDonough is located.

Szabo et al. (2012) concluded that radium concentrations in groundwater were controlled by the geochemical properties of the 15 major aquifer systems they studied, with highest radium levels occurring when radium adsorption was less effective. The Piedmont region was again identified as one where natural exceedances of the radium MCL occur.

¹ The Cobb County, Georgia, samples included in Albertson (2003) consisted of surface water samples only. As such, this study represents a regional analysis of the Piedmont, without a specific focus on Cobb County.

In summary, there is ample supporting evidence for the presence of naturally occurring parent elements in regional aquifers in the Site area, the presence of elevated levels of radium in regional groundwater, and the presence of radon, a decay product of radium. Thus, there are multiple lines of evidence for naturally-occurring radium in the regional granitic gneiss and this is also confirmed through testing of the site-specific rock formations. As such, combined radium represents a natural occurrence in the groundwater at Plant McDonough.

6.0 CONCLUSIONS

This ASD has been prepared pursuant to 40 CFR § 257.95(g)(3)(ii) and § 391-3-4-.10(6)(a-c), to address the SSLs of combined radium observed in monitoring well B-104D, and concentrations exceeding the MCL in wells B-109D, B-111D, and B-115D at Plant McDonough. Based on the key lines of evidence established in this ASD, the combined radium SSLs at the Site are the result of natural occurring radium in the bedrock and groundwater and not the result of a release from the Ash Pond. Lines of evidence supporting this demonstration include:

- Groundwater results for the shallow monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.
- Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.
- The wells with elevated radium concentrations show no correlation with CCR indicator parameters.
- Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.
- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

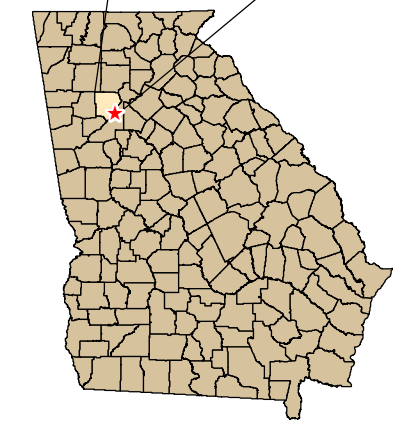
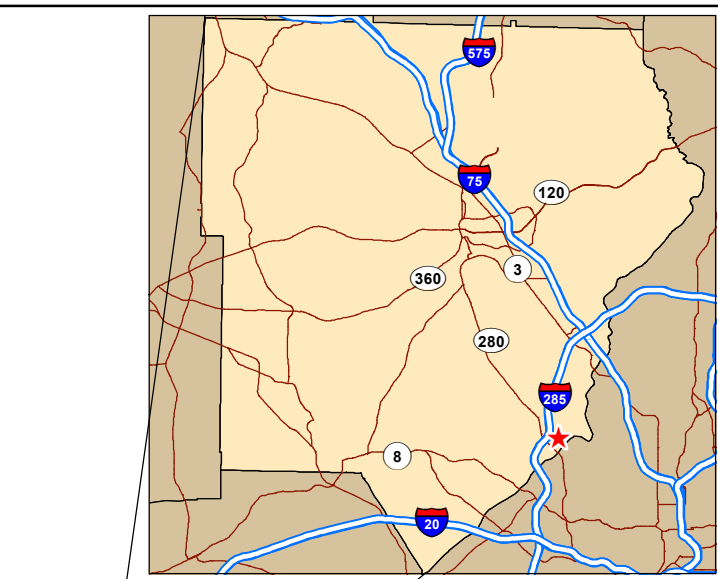
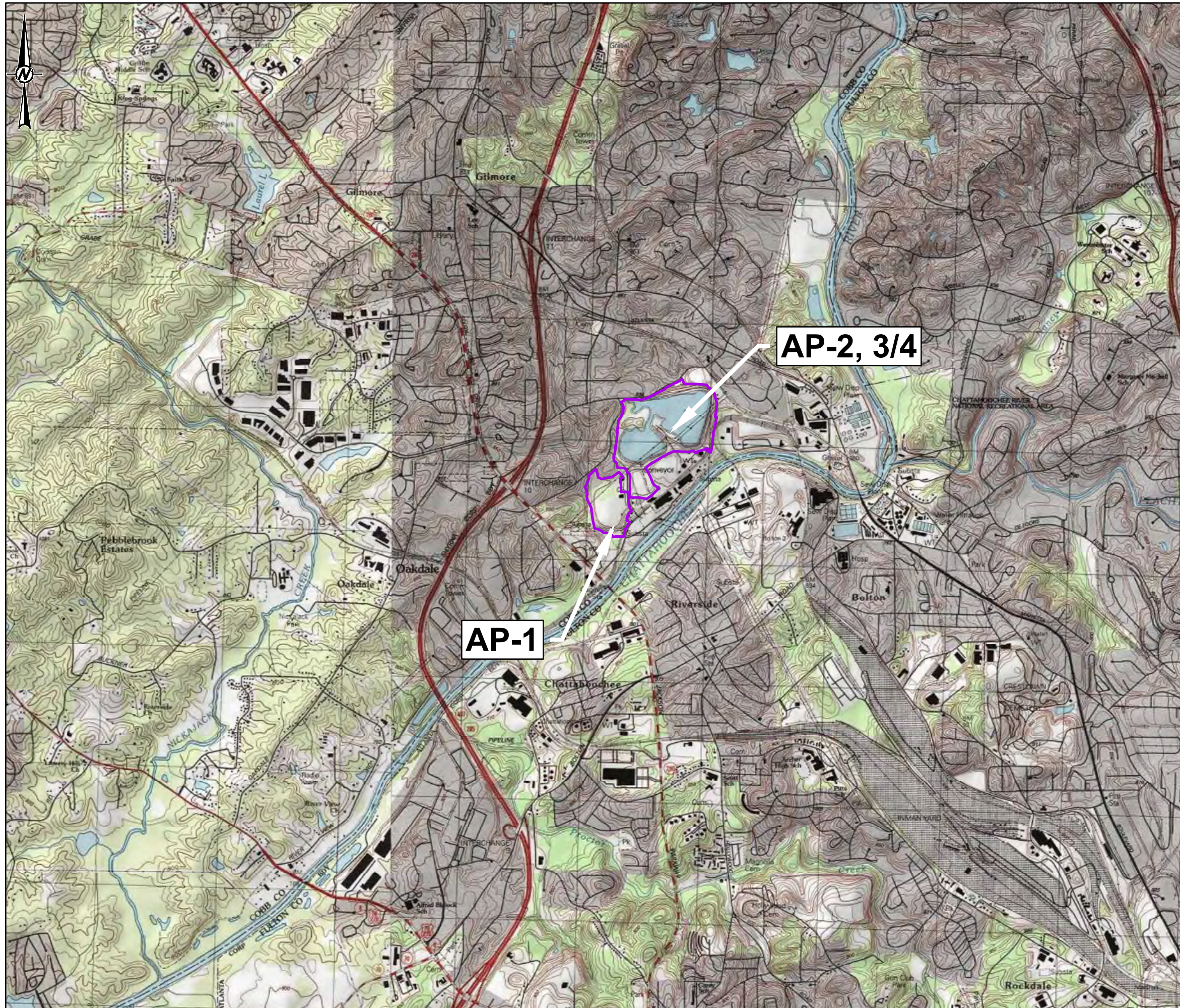
The combined radium GWPS exceedances and elevated concentrations only occurred when deep delineation wells were screened in bedrock. Installation of these delineation wells was not conducted to investigate radium because no on-site wells, including shallow monitoring wells closer in proximity to the Ash Ponds than the deeper wells, have ever reported an SSL for combined radium. Based on the key lines of evidence presented in this ASD, the combined radium concentrations at B-104D, B-109D, B-111D, and B-115D are the result of the radionuclide-rich bedrock in which the wells are screened and not due to a release from the Ash Ponds. This demonstration represents a site-wide natural occurrence of radium and is not specific to the wells identified.

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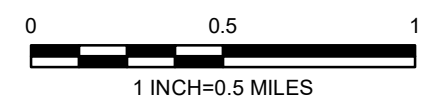
Vinson, D.S., Tagma, T., Bouchaou, L., Dwyer, G.S., Warner, N.R. and Vengosh, A., 2013. Occurrence and mobilization of radium in fresh to saline coastal groundwater inferred from geochemical and isotopic tracers (Sr, S, O, H, Ra, Rn). *Applied Geochemistry*, 38, pp.161-175

Figures



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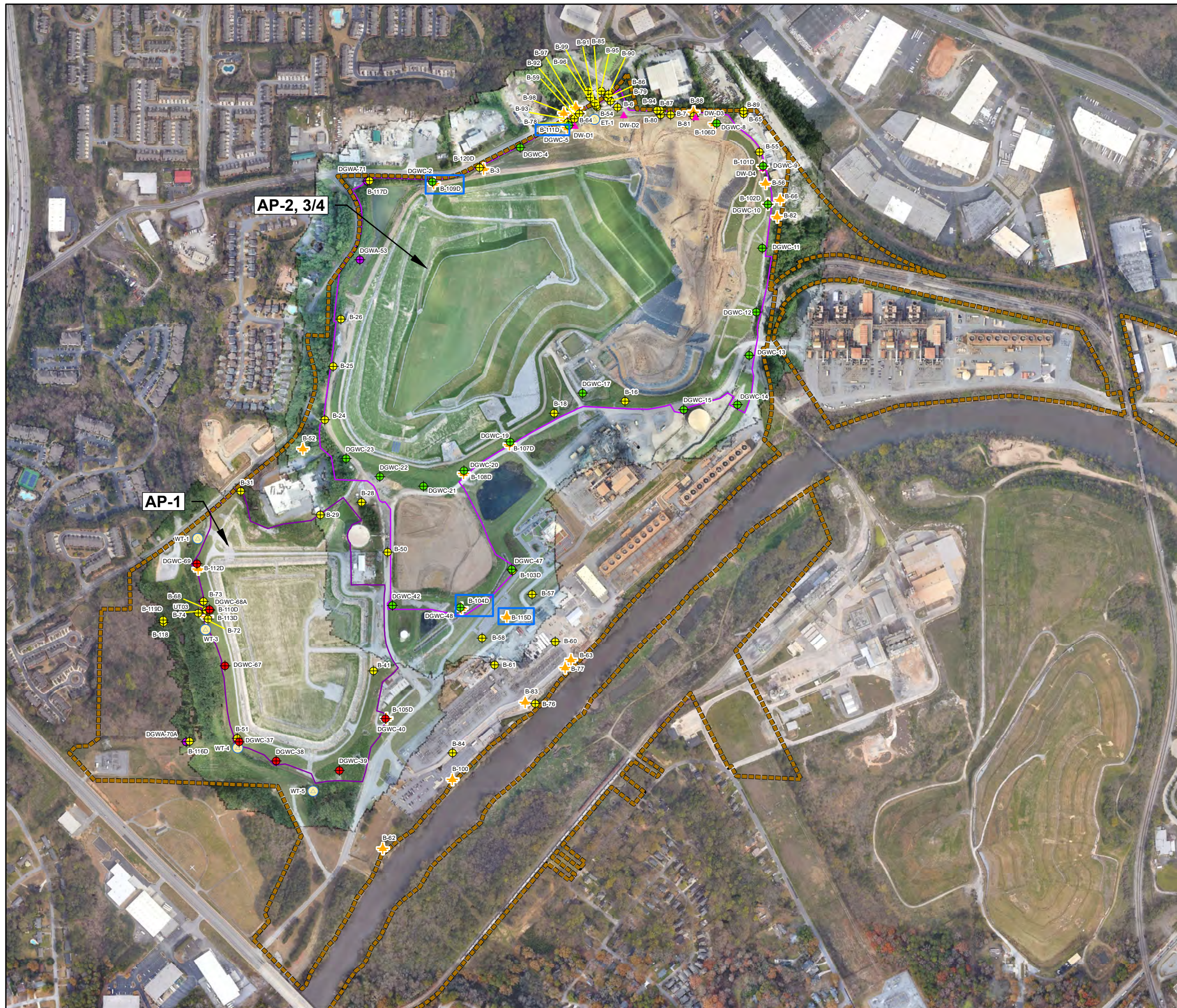
CLIENT
**GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON**



PROJECT
**ALTERNATE SOURCE DEMONSTRATION FOR COMBINED
 RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4**

**TITLE
 SITE LOCATION MAP**

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	DESIGN	SEB
	CHECKED	DP
	REVIEWED/APPROVED	RPK



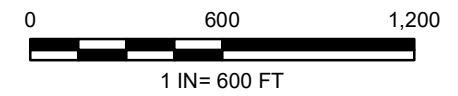
LEGEND

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- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ◆ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ◆ DEWATERING WELL
- STAFF GAUGE
- PROPERTY BOUNDARY
- PERMIT BOUNDARY
- MONITORING WELLS WITH COMBINED RADIUM CONCENTRATIONS EXCEEDING THE MAXIMUM CONTAMINANT LEVEL.

NOTES
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 04, 2021 AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



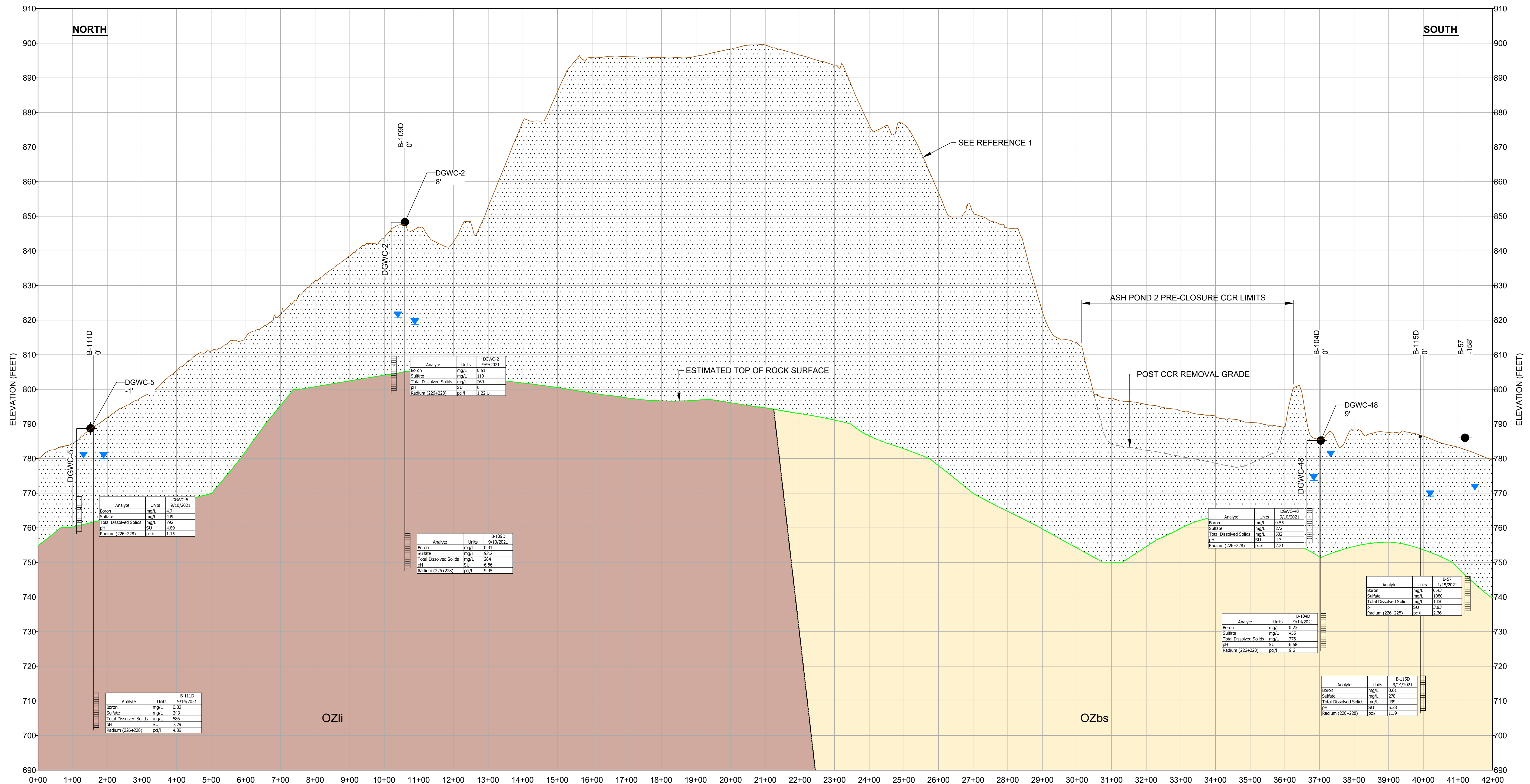
CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH

PROJECT
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
SITE PLAN AND WELL LOCATION MAP

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	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

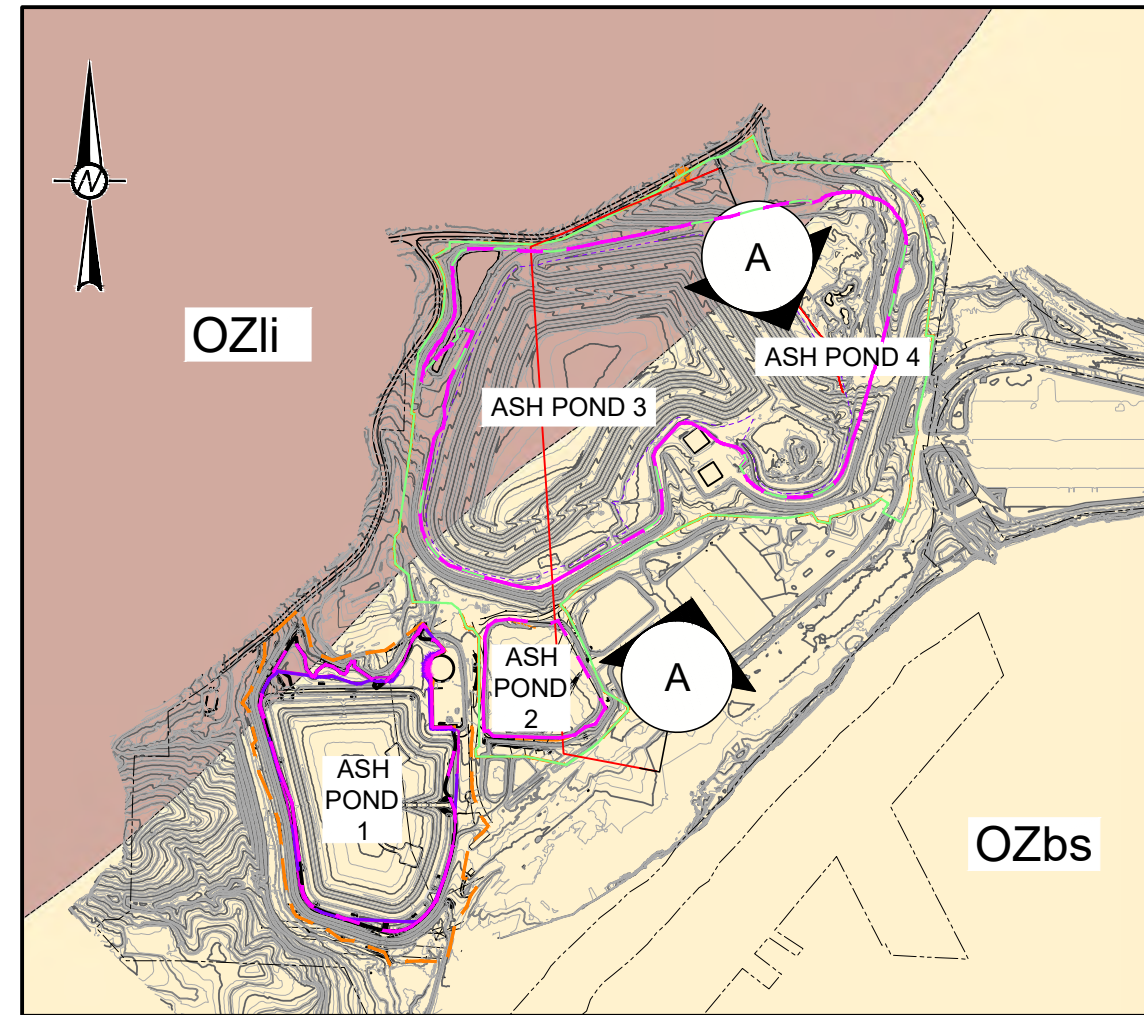
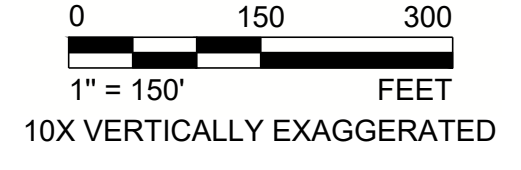
ALL MEASUREMENTS ARE APPROXIMATE. THIS SHEET HAS BEEN MODIFIED FROM ANS-B.



LEGEND

- EXISTING GRADE (SEE REFERENCE 1)
- ESTIMATED TOP OF ROCK SURFACE
- OVERBURDEN (COMPRISED OF RESIDUAL SOILS, TRANSITIONALLY WEATHERED ROCK, AND FILL)
- PHYLONITE, BUTTON SCHIST, MYLONITE, AND MYLONITIC BIOTITE GNEISS (OZbs)
- BIOTITE GNEISS, LONG ISLAND CREEK GNEISS (OZli)
- ESTIMATED GROUNDWATER SURFACE (10/27/2021)
- PREDICTED POST-CLOSURE GROUNDWATER SURFACE
- BORING ID
- DISTANCE FROM CROSS-SECTION (FEET) (- REPRESENTS LEFT OF ALIGNMENT)
- GROUND SURFACE ELEVATION
- SCREEN INTERNAL

- REFERENCES**
- THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS JULY 2021. GEORGIA STATE PLANE WEST SURVEY FEET.
 - BORING/WELL/PIEZOMETER LOCATIONS AND ELEVATIONS PROVIDED BY SOUTHERN COMPANY SERVICES, INC. AND 1968 LAW ENGINEERING GEOTECHNICAL INVESTIGATION REPORT.
 - GEOLOGIC UNITS TAKEN FROM PETROLOGIC SOLUTIONS GEOLOGIC MAPPING, OCTOBER 2016.
 - SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED AND/OR RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020 / 2021.



CLIENT
GEORGIA POWER COMPANY
 PLANT MCDONOUGH

PROJECT
ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 & 3/4

TITLE
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MARCH 2021 RESULTS

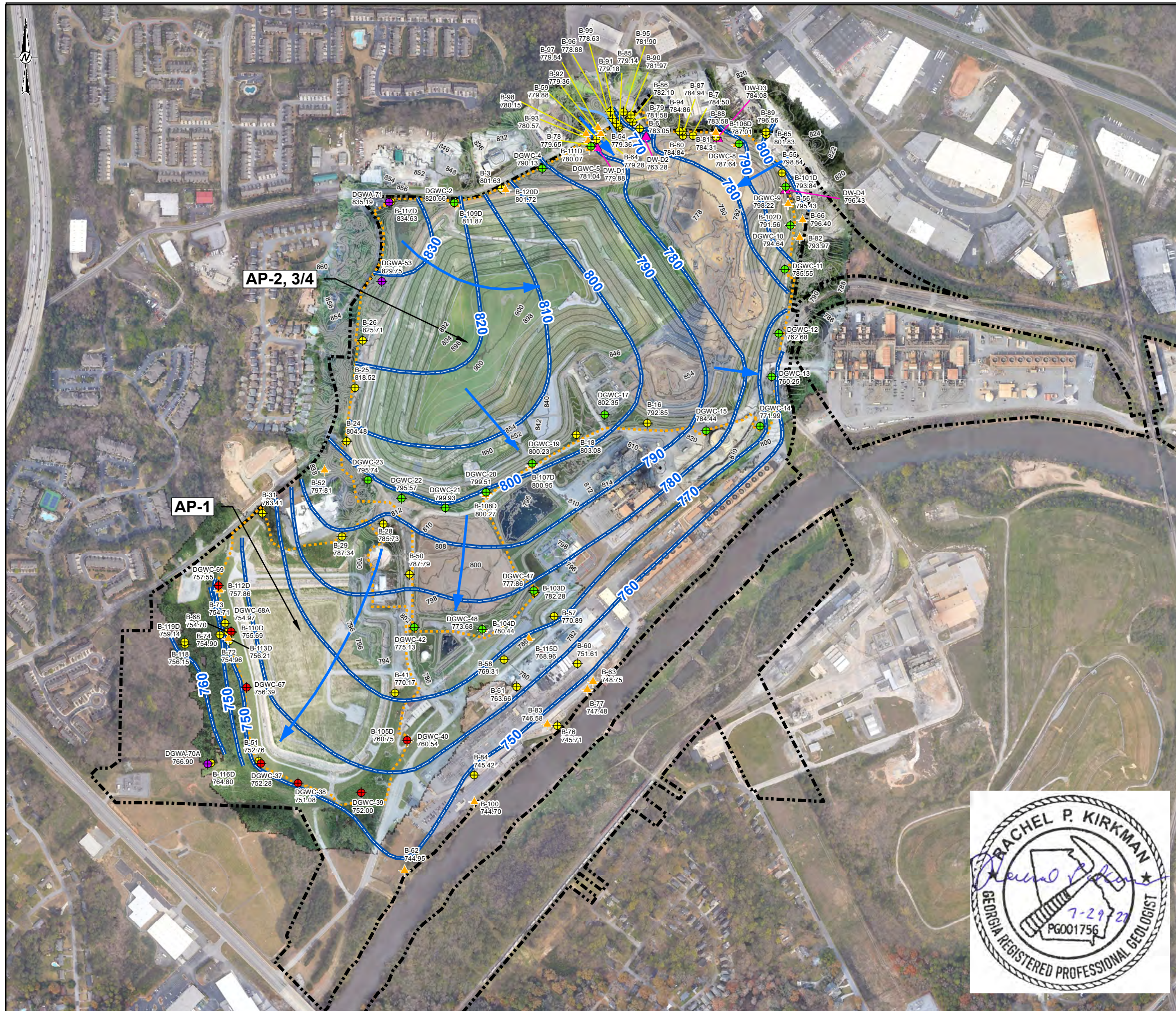
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PREPARED	RMS	
CHECKED	PJN	
REVIEWED / APPROVED	DP/PJN	

PROJECT NO.
 166849621

REV.

FIGURE
3

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



LEGEND

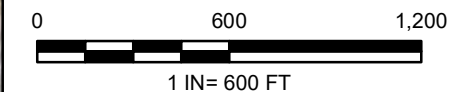
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- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ▲ DEWATERING WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD)
- SURFACE WATER STREAM
- - - PERMIT BOUNDARY
- - - PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT CONTOUR
- EXISTING TOPOGRAPHY 2-FOOT CONTOUR

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 27, 2021 BY GOLDER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
4. WELLS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 04, 2021 AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH



PROJECT
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED
 RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

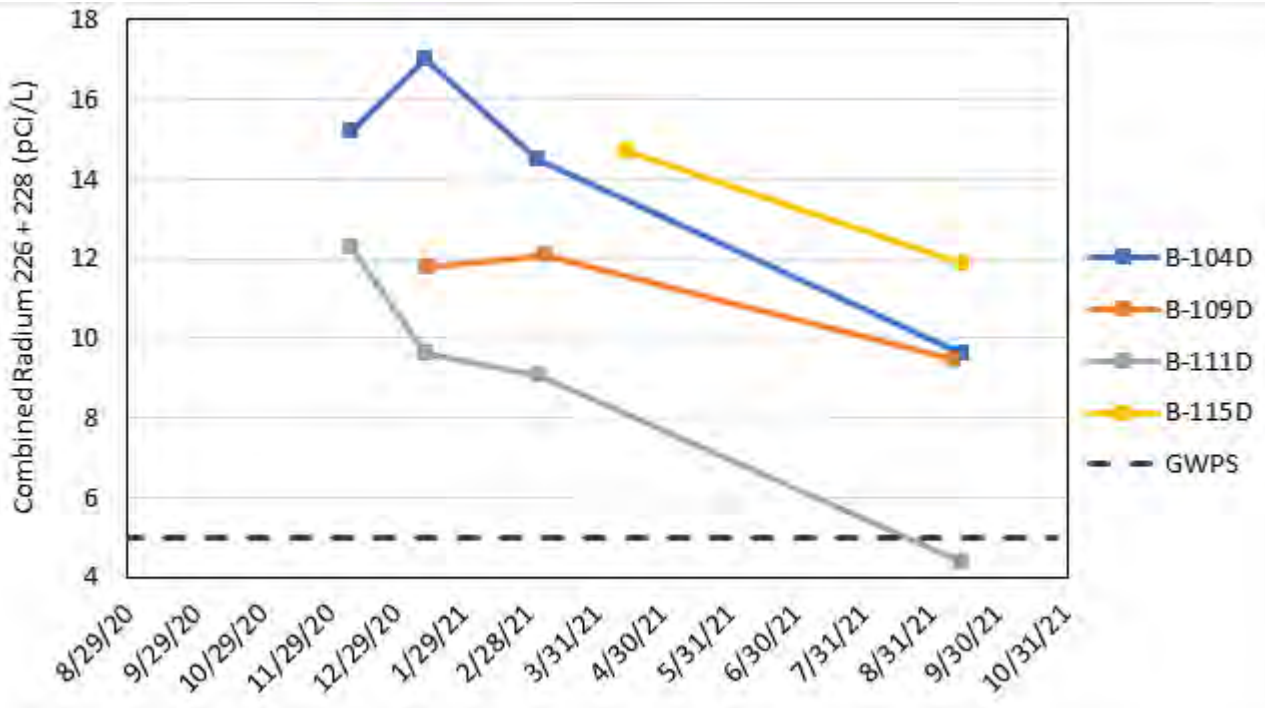
TITLE
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	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 4



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



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH-ATKINSON

PROJECT
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED
 RADIUM PLANT MCDONOUGH-ATKINSON CCR UNIT 2
 AND 3/4

CONSULTANT

YYYY-MM-DD 2022-02-18



DESIGNED DLP
 PREPARED DJC
 REVIEWED DLP
 APPROVED RPK

TITLE

**TRENDS IN COMBINED RADIUM CONCENTRATIONS AT
 SELECT WELLS**

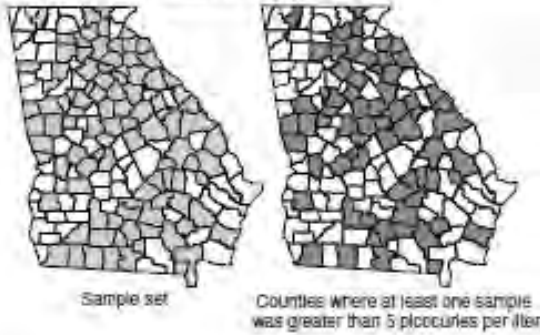
PROJECT NO. CONTROL REV. FIGURE
 GL166849621 GL166849621B002.mxd 0 5

1.0

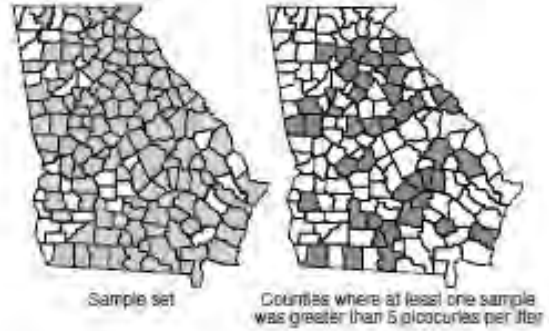
A. Gross alpha particle activity (includes uranium and radon)



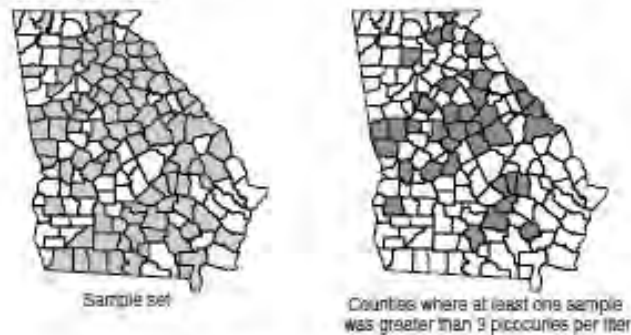
B. Combined Radium-226/Radium-228



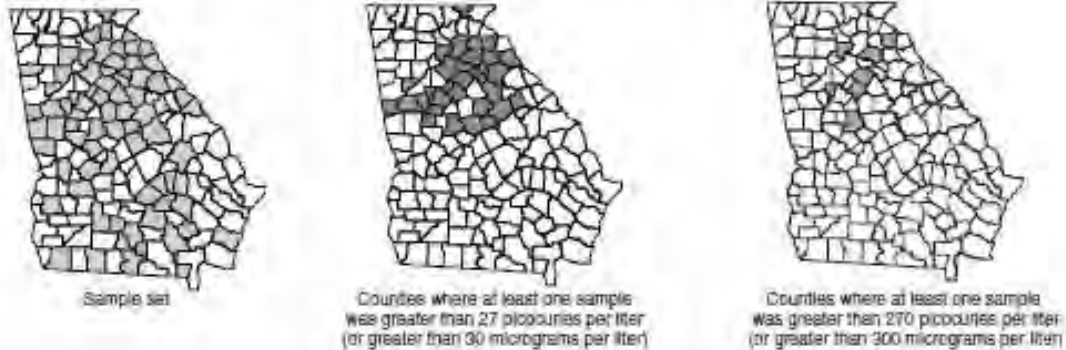
C. Radium-226



D. Radium-228



E. Uranium



FROM: ALBERTSON, P., 2003. NATURALLY OCCURRING RADIONUCLIDES IN GEORGIA WATER SUPPLIES: IMPLICATIONS FOR COMMUNITY WATER SYSTEMS

CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH-ATKINSON

PROJECT
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED
 RADIUM PLANT MCDONOUGH-ATKINSON CCR UNIT 2
 AND 3/4

CONSULTANT

YYYY-MM-DD 2022-02-18

DESIGNED DLP

PREPARED DJC

REVIEWED DLP

APPROVED RPK



NATURALLY OCCURRING RADIONUCLIDES IN COMMUNITY WATER SYSTEMS IN GEORGIA.

PROJECT NO. CONTROL REV. FIGURE
 GL166849621 GL166849621B002.mxd 0 6

APPENDIX A

Boring Logs & Well Construction Diagrams



BORING LOG

BORING B-02
Page 1 of 3

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation
LOCATION Cobb County, GA

DATE STARTED 10/2/2012 COMPLETED 10/2/2012 GROUND ELEVATION 848.3 ft COORDINATES N 1393958 E 2202119.5

CONTRACTOR SCS Field Services METHOD 4.25" Hollow Stem Auger w/pilot bit; HQ Rock Core EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY R. Tinsley CHECKED BY _____ BORING DEPTH 54.4 ft.

GROUND WATER DEPTH: DURING 42 ft. COMP. _____ DELAYED 27.8 ft. after 24 hrs.

NOTES Well installed. Refer to well data sheet.

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 8/26/20 20:43 - \\VALTRCFP01\1LAPARKER\DESKTOP\GPCMMW LOGS_SURVEY UPDATED.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
5		<p>Silt (ML) - Gravel surface with some vegetation.</p> <p>- brown, medium stiff, SILT with mica and quartz fragments.</p> <p>- CL-ML: dark red, stiff, SILT/CLAY; micaceous</p>		SS -1	4.5	4-6-9 (15)		2.5YR.
10		- reddish brown, dry, medium stiff, SILT with mica and relict bedding.		SS -2	9.5	4-4-4 (8)		saprolite (gneiss).
15		- medium stiff, SAA with mica, quartz and feldspar; distinct banding		SS -3	14.5	2-3-3 (6)		saprolite.
20		- light yellowish brown, medium stiff, fine to coarse grain, SILT with mica, quartz, and feldspar		SS -4	19.5	1-3-2 (5)		saprolite; distinct color change from red to tan with micas.
25				SS	24.5	2-3-5		

(Continued Next Page)



BORING LOG

BORING B-02
Page 2 of 3

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation

LOCATION Cobb County, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
		Silt (ML)(con't) - damp, medium stiff, SAA		-5		(8)		upper saprolite.
30		- gray and white, dry, very hard, SILT; gneiss saprolite		SS -6	29.5	6-15-25 (40)		lower saprolite.
35		- olive brown, very hard, SAA, more evidence of water (iron) staining; some black specks (manganese?)		SS -7	34.5	9-27-40 (67)		2.5Y.
40		- pale brown, dry, very hard, pulverized SILT with gneiss fragments		SS -8	39.5	50 (0)		10YR.
45		Gneiss - dark gray, hard, slightly weathered, augen gneiss with iron staining along partings. - extremely weathered and broken gneiss	804.2	RC -1	44.1			H2O on augers when pulled.
50		- gray, hard, slightly weathered, staining along vertical fractures		RC -2	49.4			
		- dark gray, weathered augen gneiss and mica schist with chlorite. Quartz layers at 50 ft, 52.8 ft and 54.1 ft.; Deformed and folded about 3 inches. - Schist: hard, slightly weathered, with chlorite						

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 8/26/20 20:43 - \\VALTRCFP01\1LAPARKER\DESKTOP\GPCMW LOGS_SURVEY UPDATED.GPJ

(Continued Next Page)



BORING LOG

BORING B-02
Page 3 of 3

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation

LOCATION Cobb County, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
55		Bottom of borehole at 54.4 feet.	793.9					
60								
65								
70								
75								
80								

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 8/26/20 20:43 - \\VALTRCFP01\LAPARKER\DESKTOP\GPCMMW LOGS - SURVEY UPDATED.GPJ

WELL CONSTRUCTION LOG

Southern Company Generation

PROJECT: Plant McDonough	DRILLING CO.: SCS Field Services	WELL NAME
Hydrogeologic Investigation	DRILLER: S. Denty	
LOCATION: Ash Pond	RIG TYPE: CME550	DGWA-2/B-2
LOGGER: Rhonda Tinsley	DRILLING METHODS: HS Auger/HQ Rock Core	
DATE CONSTRUCTED: 10/2/2012	N: 1393958 E:2202119.5	

	DEPTH FEET	ELEVATION FT, MSL
TOP OF RISER	-2.6	850.88
2" Threaded Riser Cap		
4 ft x 4 ft concrete pad		
GROUND SURFACE	0.0	848.3
PROTECTIVE CASING SIZE: 4" x 4" TYPE: aluminum		
BOTTOM OF GROUT		
BACKFILL MATERIAL TYPE: Portland cement/bentonite grout AMOUNT: 10 bags cement 4 lbs bentonite		
RISER CASING DIA: 2 inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded		
TOP OF SEAL	31.0	817.3
ANNULAR SEAL TYPE: PelPlug TR-30 3/8" bentonite pellets; 5-gallon buckets AMOUNT: 1.75 buckets PLACEMENT: Poured		
TOP OF FILTER PACK	35.1	813.2
FILTER PACK TYPE: Filtersil #61 Size 1A; 50 lbs/bag AMOUNT: 2.5 Bags PLACEMENT: Poured		
BOTTOM OF RISER / TOP OF SCREEN	38.7	809.7
SCREEN DIA: 2" prepack (3.45" OD) TYPE: Schedule 40 PVC OPENING WIDTH: 0.01 inch OPENING TYPE: Slotted SLOT SPACING: 0.1 inch		
BOTTOM OF SCREEN	48.7	799.7
Flush-threaded end cap		
BOTTOM OF CASING	49.0	799.3
HOLE DIA: 7 inch (auger) 3.8 inch (HQ core)		



BORING LOG

BORING B-05
Page 1 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation
LOCATION Cobb County, GA

DATE STARTED 10/3/2012 COMPLETED 10/4/2012 GROUND ELEVATION 788.7 ft COORDINATES N 1394306.3 E 2202965.1

CONTRACTOR SCS Field Services METHOD 4.25" Hollow Stem Auger w/pilot bit; HQ Rock Core EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY R. Tinsley CHECKED BY _____ BORING DEPTH 30 ft.

GROUND WATER DEPTH: DURING 16 ft. COMP. _____ DELAYED 0 ft. after 100 hrs.

NOTES Well installed. Refer to well data sheet.

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 8/26/20 20:43 - \\VALTRCFP01\1LAPARKER\DESKTOP\GPCMMW LOGS - SURVEY UPDATED.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
		Silt (ML) - reddish brown, SILT						
5		Silty Sand (SM) - olive gray, damp, very loose, silty SAND to sandy SILT	784.2	SS -1	4.5	WH-WH-WH (0)		
10		Silt (ML) - yellowish to light brown, damp, very soft, SILT with mica (gneiss)	779.2	SS -2	9.5	WH-WH-WH (0)		upper saprolite.
15		- greenish gray, wet, medium stiff, sandy SILT saprolite with relic structure (gneiss).		SS -3	14.5	2-2-4 (6)		lower saprolite.
20		- medium stiff, SAA		SS -4	19.5	1-2-3 (5)		lower saprolite.
25		- very hard, SAA; slightly less weathered.		SS	24.5	50		

(Continued Next Page)



BORING LOG

BORING B-05
Page 2 of 2

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation

LOCATION Cobb County, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
30		<p>Gneiss - black (biotite) and white, hard, slightly weathered, AUGEN GNEISS with water staining along foliations (approx. 45 degrees).</p>	763.3	-5 RC -1	24.9	(0)		lower saprolite.
Bottom of borehole at 30.0 feet.								
35								
40								
45								
50								

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 8/26/20 20:43 - \\VALTRCFP01\IAPARKER\DESKTOP\GPCMMW LOGS_SURVEY UPDATED.GPJ

WELL CONSTRUCTION LOG

Southern Company Generation

PROJECT: Plant McDonough	DRILLING CO.: SCS Field Services	WELL NAME
Hydrogeologic Investigation	DRILLER: S. Denty	
LOCATION: Ash Pond	RIG TYPE: CME550	
LOGGER: Rhonda Tinsley	DRILLING METHODS: HS Auger/HQ Rock Core	DGWC-5/B-5
DATE CONSTRUCTED: 10/4/2012	N: 1394306.3 E:2202965.1	

	DEPTH FEET	ELEVATION FT, MSL
TOP OF RISER	-3.0	791.75
2" Threaded Riser Cap		
4 ft x 4 ft concrete pad		
GROUND SURFACE	0.0	788.7
PROTECTIVE CASING SIZE: 4" x 4" TYPE: aluminum		
BOTTOM OF GROUT		
BACKFILL MATERIAL TYPE: Portland cement/bentonite grout AMOUNT: 5 bags cement 7 lbs bentonite		
RISER CASING DIA: 2 inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded		
TOP OF SEAL	12.0	776.7
ANNULAR SEAL TYPE: PelPlug TR-30 3/8" bentonite pellets; 5-gallon buckets AMOUNT: 2 buckets PLACEMENT: Tremie		
TOP OF FILTER PACK	16.0	772.7
FILTER PACK TYPE: Filtersil #61 Size 1A; 50 lbs/bag AMOUNT: 1.5 Bags PLACEMENT: Tremie		
BOTTOM OF RISER / TOP OF SCREEN	19.7	769.1
SCREEN DIA: 2" prepack (3.45" OD) TYPE: Schedule 40 PVC OPENING WIDTH: 0.01 inch OPENING TYPE: Slotted SLOT SPACING: 0.1 inch		
BOTTOM OF SCREEN	29.7	759.1
Flush-threaded end cap		
BOTTOM OF CASING	30.0	758.7
HOLE DIA: 7 inch (auger) 3.8 inch (HQ core)		

Location resurveyed June - July 2020

RECORD OF BOREHOLE DGWC-48/B-48

SHEET 1 of 1

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 30.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: 100C Track Mounted Rig
 DATE STARTED: 6/21/16
 DATE COMPLETED: 6/22/16

NORTHING: 1,391,314.60
 EASTING: 2,202,290.20
 GS ELEVATION: 785.2
 TOC ELEVATION: 788.33 ft

DEPTH W.L.: 11.35
 ELEVATION W.L.: 773.85
 DATE W.L.: 6/23/2016
 TIME W.L.: 9:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	785	0.00 - 3.00 SILT; orange brown, micaceous, dry, very stiff (fill)	ML		782.2 3.00					<p>WELL CASING Interval: 0'-30' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush threaded with O-ring</p> <p>WELL SCREEN Interval: 19.6'-29.6' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 17.6'-30' Type: Filtersil std61</p> <p>FILTER PACK SEAL Interval: 12.1'-17.6' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-12.1' Type: Portland Type I/Type II/Gel Mix</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Sonic Rock Drill: Sonic</p>
5	780	3.00 - 11.00 SILT; oragnish brown to tan, laminations, trace to some medium to coarse sand, trace fine to coarse gravel, gray, subangular, moist (saprolite)	ML					Portland Type I/ Aluminum Casing		
10	775	11.00 - 24.00 SILT; gray to blackish brown, some fine to coarse sand, laminations, stiff to very stiff, dry	ML		774.2 11.00			Portland Type I/ Bentonite Gel mix		
15	770	24.00 - 30.00 biotite GNEISS; gray and white, orange staining, partially weathered bedrock, some clay, gray, micaceous	BR		761.2 24.00			3/8" Bentonite Pellets		
20	765							Filtersil std #61		
25	760							0.010" slot screen		
30	755	Boring completed at 30.00 ft			755.2			Sump		
35	750									
40	745									
45										

BOREHOLE RECORD MCDONOUGH MASTER LIST_BACKUP_SURVEY UPDATED (5).GPJ PIEDMONT.GDT 8/24/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Bill Lindsey

GA INSPECTOR: K. Jurinko, PG
 CHECKED BY: Rachel P. Kirkman, PG
 DATE: 12/22/17



RECORD OF BOREHOLE B-54

SHEET 1 of 1

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 34.20 ft
 LOCATION: Eastside of the stream north of AP4

DRILL RIG: CME 55
 DATE STARTED: 9/26/16
 DATE COMPLETED: 9/26/16

NORTHING: 1,394,423.50
 EASTING: 2,203,140.70
 GS ELEVATION: 782.6
 TOC ELEVATION: 785.46 ft

DEPTH W.L.: 4.56
 ELEVATION W.L.: 778.04
 DATE W.L.: 10/6/2016
 TIME W.L.: 839

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE
0	780	0.00 - 13.50 Top 10' were Hydrovac for utilities.									<p>WELL CASING Interval: 0'-23.8' Material: Schedule 40 PVC Diameter: 2 Joint Type: Flush/Screw</p> <p>WELL SCREEN Interval: 23.8'-33.8' Material: Schedule 40 PVC Diameter: 2 Slot Size: 0.010 End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 21.9'-34.2' Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 17.8'-21.9' Type: PEL-PLUG 3/8" Bentonite pellets</p> <p>ANNULUS SEAL Interval: 0-17.8' Type: Portland Type I/Type II/Gel Mix</p> <p>WELL COMPLETION Pad: 2' x 2' concrete Protective Casing: 4"x4"x5' aluminum</p> <p>DRILLING METHODS Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell</p>
5	775										
10	770										
15	765	13.50 - 28.50 SM, silty SAND, fine to coarse, non to low plasticity; white to gray, weathered, well foliated gneissic saprolite; cohesive, moist, w<PL, stiff.	SM		769.1 13.50	1	DO	6-7-6	13	0.83 1.50	
20	760					2	DO	5-9-8	17	1.33 1.50	
25	755					3	DO	4-5-11	15	0.00 1.50	
30	750	28.50 - 29.00 GPS, poorly-graded sandy GRAVEL, fine to coarse, non plastic, some silt; white to tan to pink, K-spar and Quartz; non-cohesive, wet, w<PL, dense., PWR. Auger Refusal at 29.0	GP-GM		754.1 753.6 29.00	4	DO	21-50/1	71/7	0.50 0.58	
35	745	29.00 - 34.20 Bedrock; AUGEN GNEISS; fresh to slightly weathered, well foliated, gray, fine grained, medium strong to strong, (locally contains pegmatite zones). Boring completed at 34.20 ft	BR		748.4						

BOREHOLE RECORD MCDONOUGH MASTER LIST_BACKUP_SURVEY UPDATED (5).GPJ_PIEDMONT.GDT 8/24/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Terracon
 DRILLER: Shep Becker

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 12/22/17



RECORD OF BOREHOLE B-57

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1659778-01
 DRILLED DEPTH: 50.50 ft
 LOCATION: North of the 4-wide construction trailer

DRILL RIG: CME 55
 DATE STARTED: 9/24/16
 DATE COMPLETED: 9/24/16

NORTHING: 1,391,397.46
 EASTING: 2,202,735.64
 GS ELEVATION: 785.76
 TOC ELEVATION: 789.22 ft

DEPTH W.L.: 21.49'
 DATE W.L.: 10/6/2016
 TIME W.L.: 9:20
 GW ELEVATION: 767.73

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES					MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0	785	0.00 - 10.00 Boring was hydrovac'd to 10' bgs (material appears to be SM-ML)	SM-ML		775.76						Portland Type I/Type II/Gel Mix / aluminum casing	WELL CASING Interval: 0'-40' Material: Schedule 40 PVC Diameter: 2 Joint Type: Flush/Screw WELL SCREEN Interval: 40'-50' Material: Schedule 40 PVC Diameter: 2 Slot Size: 0.010 End Cap: Schedule 40 PVC FILTER PACK Interval: 34.6'-50.5' Type: FilterSil FILTER PACK SEAL Interval: 29'-34.6' Type: PEL-PLUG 3/8" Bentonite pellets ANNULUS SEAL Interval: 0'-29' Type: Portland Type I/Type II/Gel Mix WELL COMPLETION Pad: 2' x 2' concrete Protective Casing: 4"x4"x5' aluminum DRILLING METHODS Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell
5	780				10.00 - 30.00 ML- Sandy Clayey SILT, fine to coarse sand, some fine gravel; reddish-brown to brown, dense, dry; micaceous, PWR	10.00	1	DO	4-10-14	24		
10	775											
15	770		ML			2	DO	11-24-50/5	74/11	1.00 1.50		
20	765											
25	760											
30	755		CL		755.76	4	DO	4-4-8	12	1.33 1.50	PEL-PLUG 3/8" Bentonite pellets	
		30.00 - 34.50 CL- Silty CLAY, SOME fine to medium SAND, trace gravel; brown; loose, W<PL; micaceous, PWR. Auger Refusal at 34.5			30.00							
35	750		BR		751.26	5	DO	50/3	50/3	0.00 0.25	FilterSil -	
		34.50 - 50.50 Bedrock; SCHIST; strong to very strong, light to dark gray with white and black laminations, sub-parallel; slightly weathered top with red oxidation on fractured surfaces to fresh and unfractured at the bottom.			34.50							
40	745									0.010 Slotted Screen		
45												

BOREHOLE RECORD 165977801_GRP(B-47-B-71).GPJ_PIEDMONT.GDT 12/22/17

Log continued on next page

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Terracon
 DRILLER: Shep Becker

GA INSPECTOR: Aubrey Ellis
 CHECKED BY: TIR
 DATE: 12/22/17



RECORD OF BOREHOLE B-57

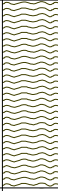
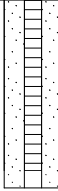
SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1659778-01
 DRILLED DEPTH: 50.50 ft
 LOCATION: North of the 4-wide construction trailer

DRILL RIG: CME 55
 DATE STARTED: 9/24/16
 DATE COMPLETED: 9/24/16

NORTHING: 1,391,397.46
 EASTING: 2,202,735.64
 GS ELEVATION: 785.76
 TOC ELEVATION: 789.22 ft

DEPTH W.L.: 21.49'
 DATE W.L.: 10/6/2016
 TIME W.L.: 9:20
 GW ELEVATION: 767.73

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE	REC
45	740	34.50 - 50.50 Bedrock; SCHIST; strong to very strong, light to dark gray with white and black laminations, sub-parallel; slightly weathered top with red oxidation on fractured surfaces to fresh and unfractured at the bottom. <i>(Continued)</i>	BR		735.26							<p>WELL CASING Interval: 0'-40' Material: Schedule 40 PVC Diameter: 2 Joint Type: Flush/Screw</p> <p>WELL SCREEN Interval: 40'-50' Material: Schedule 40 PVC Diameter: 2 Slot Size: 0.010 End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 34.6'-50.5' Type: FilterSil</p> <p>FILTER PACK SEAL Interval: 29'-34.6' Type: PEL-PLUG 3/8" Bentonite pellets</p> <p>ANNULUS SEAL Interval: 0'-29' Type: Portland Type I/Type II/Gel Mix</p> <p>WELL COMPLETION Pad: 2' x 2' concrete Protective Casing: 4"x4"x5' aluminum</p> <p>DRILLING METHODS Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell</p>
50	735	Boring completed at 50.50 ft										
55	730											
60	725											
65	720											
70	715											
75	710											
80	705											
85	700											
90												

BOREHOLE RECORD 165977801_GRP(B-47-B-71).GPJ_PIEDMONT.GDT 12/22/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Terracon
 DRILLER: Shep Becker

GA INSPECTOR: Aubrey Ellis
 CHECKED BY: TIR
 DATE: 12/22/17



RECORD OF BOREHOLE DGWC-68/B-68

SHEET 1 of 1

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 40.40 ft
 LOCATION: West Toe of AP-1

DRILL RIG: Geoprobe
 DATE STARTED: 3/16/17
 DATE COMPLETED: 3/16/17

NORTHING: 1,391,298.20
 EASTING: 2,200,714.20
 GS ELEVATION: 759.0
 TOC ELEVATION: 758.68 ft

DEPTH W.L.: 3.5
 ELEVATION W.L.: 755.06
 DATE W.L.: 3/16/17
 TIME W.L.: 1700

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES					MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0		0.00 - 10.00 Hydrovac									Flush Mounted Casing CETCO puregold grout (70:30) PEL-PLUG 3/8" Bentonite pellets	WELL CASING Interval: 0'-8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screen WELL SCREEN Interval: 8.0'-18.0' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 6.1'-18.4' Type: FilterSil FILTER PACK SEAL Interval: 4.1'-6.1' Type: PEL-PLUG 3/8" Bentonite pellets ANNULUS SEAL Interval: 0'-4.1' Type: CETCO puregold grout (70:30) WELL COMPLETION Pad: 4'x4' Concrete Protective Casing: 8" Round Flush Mount DRILLING METHODS Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell
7.55												
10		10.00 - 15.00 Sandy Silt, fine to medium sand, dark brown, highly weathered, micaceous, cohesive, moist, firm, sample spoon wet	ML								FilterSil	
14.5				749								
15		15.00 - 18.80 Silty Sand, fine to coarse, trace gravel, greenish grey, weathered, thinly bedded, noncohesive, very dense, (weathered gneiss)	PWR									
14.5				744	S1	SPT	5-6-5	11	1.08	1.50	.010" Slotted Schedule 40 PVC	
15				740.2								
15		19.20 - 22.80 Slightly weathered to fresh, weakly foliated, light gray to white, fine to very fine grained, medium strong to strong, MYLONITE (White Mylonite).	BR									
19.2				740	S2	SPT	50/3	50/3	0.25	0.25	FilterSil	
19.2		22.80 - 24.10 Slight to moderately weathered, weakly foliated, dary gray to black, fine to very fine grained, medium strong, MYLONITE (Black Mylonite).	BR									
22.8				736.2								
24.1		24.10 - 28.90 Slightly weathered to fresh, weakly foliated, interlayered with vein quartz (~1"), light grey to white, fine to very fine grained, medium strong to strong, MYLONITE (White Mylonite).	BR									
24.1				734.9								
24.1				730.1								
28.9		28.90 - 38.00 Slightly weathered to fresh, moderate to strongly foliated, interlayered with Black Mylonite (~1") and pegmatites (~1 to 2"), light to dark gray, fine to coarse grained, medium strong to strong, Sheared Gneiss (Long Island Creek).	BR								PEL-PLUG 3/8" Bentonite pellets	
28.9				721								
38.0		38.00 - 39.20 Slight to moderately weathered, weakly foliated, dary gray to black, fine to very fine grained, medium strong, MYLONITE (Black Mylonite).	BR									
38.0				719.8								
39.2		39.20 - 40.40 Slightly weathered to fresh, moderate to strongly foliated, light to dark gray, fine to coarse grained, medium strong to strong, Sheared Gneiss (Long Island Creek).	BR									
39.2				718.6								
40.4		Boring completed at 40.40 ft										

BOREHOLE RECORD: MCDONOUGH MASTER LIST_BACKUP_SURVEY_UPDATED (5).GPJ PIEDMONT.GDT 8/24/20

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Southern Company Services
 DRILLER: Sean Denty

GA INSPECTOR: Ben Hodges
 CHECKED BY: Timothy Richards, PG
 DATE: 1/16/18



RECORD OF BOREHOLE B-104D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 60.00 ft
 LOCATION: East of DGWC-48

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/20/20
 DATE COMPLETED: 10/20/20

NORTHING: 1391318.3
 EASTING: 2202298.5
 GS ELEVATION: 785.3 ft
 TOC ELEVATION: 787.90 ft

DEPTH W.L.: 12.0
 ELEVATION W.L.: 775.9
 DATE W.L.: 10/20/2020
 TIME W.L.: 1818

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 Air knife; FILL	FILL						Stick-up -	<p>B-104D Borehole Diameter: 4" WELL CASING Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 50'-60' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 47.15'-60.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 44'-47.15' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-44' Type: AquaGuard Bentonite Grout Quantity: Approximately 40 gallons</p> <p>NOTES</p>
5										
10		10.00 - 12.00 (CL), CLAY; red brown; moist, soft, low plasticity, w<PL, FILL	CL		10.00					
15		12.00 - 22.00 (ML), SILT; dark brown to gray; non-plastic to low plasticity, dry to moist, w<PL, soft to firm	ML		12.00	1	ROTO SONIC	8.00 8.00		
20						2	ROTO SONIC	4.00 4.00		
25		22.00 - 30.00 (ML), SILT; dark brown; w~PL, moist to wet, soft to firm, contains gravels of biotite gneiss (trace)	ML		22.00	3	ROTO SONIC	8.00 8.00	AquaGuard Bentonite - Grout	
30		30.00 - 35.00 (TWR), TRANSITIONALLY WEATHERED ROCK; rust brown to gray; deeply weathered biotite gneiss, poorly foliated, poorly jointed, iron staining	TWR		30.00					
35		35.00 - 55.50 (GNEISS), BEDROCK; biotite, quartz, feldspar, light to dark gray, strong to medium strong, fresh to slightly weathered, locally contains iron staining and garnets	BR		35.00	4	ROTO SONIC	6.55 10.00		
40						5	ROTO SONIC	2.10 5.00	3/8" Uncoated Pel-Plug	
45						6	ROTO SONIC	4.35 7.50		
50		Log continued on next page							Sand Filter -	

BOREHOLE RECORD - MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 2/3/21



RECORD OF BOREHOLE B-104D

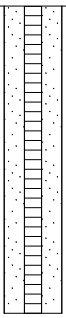
SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 60.00 ft
 LOCATION: East of DGWC-48

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/20/20
 DATE COMPLETED: 10/20/20

NORTHING: 1391318.3
 EASTING: 2202298.5
 GS ELEVATION: 785.3 ft
 TOC ELEVATION: 787.90 ft

DEPTH W.L.: 12.0
 ELEVATION W.L.: 775.9
 DATE W.L.: 10/20/2020
 TIME W.L.: 1818

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
50		35.00 - 55.50 (GNEISS), BEDROCK; biotite, quartz, feldspar, light to dark gray, strong to medium strong, fresh to slightly weathered, locally contains iron staining and garnets <i>(Continued)</i>	BR	[Red wavy lines]		6		4.35 7.50	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">Pack</div>  </div>	<p>B-104D Borehole Diameter: 4" WELL CASING Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 50'-60' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 47.15'-60.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 44'-47.15' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-44' Type: AquaGuard Bentonite Grout Quantity: Approximately 40 gallons</p> <p>NOTES</p>
55		55.50 - 60.00 (SCHIST), BEDROCK; quartz, muscovite, gray to silver, medium grain, medium strong, fresh to moderately weathered	BR	[Black diagonal lines]	55.50	7	ROTO SONIC	6.15 7.50		
60		Boring completed at 60.00 ft								
65										
70										
75										
80										
85										
90										
95										
100										

BOREHOLE RECORD MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 2/3/21



RECORD OF BOREHOLE B-109D

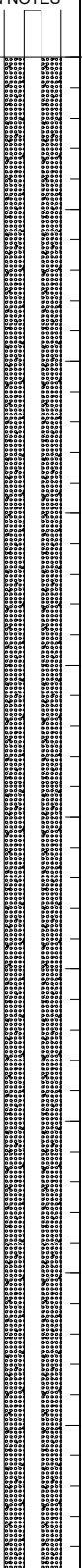
SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 100.00 ft
 LOCATION: Next to DGWC-2

DRILL RIG: Geoprobe 8140LS
 DATE STARTED: 10/30/20
 DATE COMPLETED: 10/31/20

NORTHING: 1393957.5
 EASTING: 2202127
 GS ELEVATION: 847.8 ft
 TOC ELEVATION: 850.73 ft

DEPTH W.L.: 23.50
 ELEVATION W.L.: 827.2
 DATE W.L.: 10/31/2020
 TIME W.L.: 1157

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 Air knife; FILL	FILL	[Cross-hatch pattern]					Stick-up - 	B-109D Borehole Diameter: 4" WELL CASING Interval: 0'-100' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 86.4'-99.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 86.5'-99.4' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 83.9'-86.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-83.9' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons NOTES
10		10.00 - 13.50 (ML). SILT; brown, soft,	ML	[Vertical lines pattern]	10.00					
15		13.50 - 20.00 (CL). CLAY; red to red brown, trace sand, medium plasticity, w<PL, firm, moist to dry,	CL	[Diagonal lines pattern]	13.50	1	ROTO SONIC	10.00 10.00		
20		20.00 - 30.00 (SM). SILTY SAND; gray to reddish gray, fine to medium, loose to soft, dry to moist, w<PL, low plasticity, quartz, biotite, feldspar	SM	[Dotted pattern]	20.00	2	ROTO SONIC	3.70 10.00		
30		30.00 - 36.00 (SM). SILTY SAND; gray to reddish gray, some clay, fine to medium, loose to soft, dry to moist, w<PL, low plasticity, quartz, biotite, feldspar	SM	[Dotted pattern]	30.00	3	ROTO SONIC	6.00 6.00		
35		36.00 - 40.00 (CL). CLAY; black to dark gray, low plasticity, w<PL, very soft to hard, dry to moist, saprolite, biotite gneiss, saprolite,	CL	[Diagonal lines pattern]	36.00	4	ROTO SONIC	4.00 4.00		
40		40.00 - 45.00 (TWR). TRANSITIONALLY WEATHERED ROCK; black to dark gray, silt with some fine sand, trace gravels, low plasticity, w<PL, soft, moist to wet, biotite gneiss fragments	TWR	[Triangle pattern]	40.00	5	ROTO SONIC	2.20 5.00		
45		45.00 - 46.00 (GRANITE). BEDROCK; biotite, feldspar, quartz, white to light gray, fine grain, quartz veins, weakly foliated, poorly jointed, fresh to slightly weathered, medium strong	BR	[Pink wavy pattern]	45.00	6	ROTO SONIC	4.20 10.00		
50		46.00 - 55.00 (GNEISS). BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed fresh to slightly weathered, medium strong to weak, iron staining	BR	[Red wavy pattern]	46.00					

BOREHOLE RECORD MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 2/3/21



Log continued on next page

RECORD OF BOREHOLE B-109D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 100.00 ft
 LOCATION: Next to DGWC-2

DRILL RIG: Geoprobe 8140LS
 DATE STARTED: 10/30/20
 DATE COMPLETED: 10/31/20

NORTHING: 1393957.5
 EASTING: 2202127
 GS ELEVATION: 847.8 ft
 TOC ELEVATION: 850.73 ft

DEPTH W.L.: 23.50
 ELEVATION W.L.: 827.2
 DATE W.L.: 10/31/2020
 TIME W.L.: 1157

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
50		46.00 - 55.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed fresh to slightly weathered, medium strong to weak, iron staining (<i>Continued</i>)	BR			6	ROTO SONIC	4.20 10.00		<p>B-109D Borehole Diameter: 4" WELL CASING Interval: 0'-100' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 86.4'-99.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 86.5'-99.4' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 83.9'-86.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-83.9' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
55		55.00 - 65.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong to weak, iron staining. Pegmatitic zone 57.75' - 58.75' bgs (biotite, quartz, feldspar).	BR		55.00	7	ROTO SONIC	8.25 10.00		
60			BR			8	ROTO SONIC	10.00 10.00		
65		65.00 - 80.00 (GNEISS), BEDROCK; quartz, feldspar, biotite, black to dark gray, well foliated, poorly jointed fresh to slightly weathered, medium strong to weak, iron staining.	BR		65.00	9	ROTO SONIC	5.00 5.00		
70			BR			10	ROTO SONIC	4.25 5.00		
75		80.00 - 85.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed, fresh, fine to medium grain, medium strong, iron staining, locally contains chlorite	BR		80.00	11	ROTO SONIC	5.00 5.00		
80			BR			12	ROTO SONIC	8.40 10.00		
85		85.00 - 100.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, green when dry and dark gray to black when wet, well foliated, poorly jointed fresh, fine to medium grain, medium strong, iron staining, locally contains chlorite and epidote	BR		85.00				3/8" Uncoated Pel-Plug Sand Filter Pack U-Pack Screen	
90			BR							
95			BR							
100		Boring completed at 100.00 ft								

BOREHOLE RECORD MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 2/3/21



RECORD OF BOREHOLE B-111D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 85.00 ft
 LOCATION: West of DGWC-5

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/1/20
 DATE COMPLETED: 11/3/20

NORTHING: 1394303.4
 EASTING: 2202956.4
 GS ELEVATION: 789.1 ft
 TOC ELEVATION: 791.87 ft

DEPTH W.L.: 8.9
 ELEVATION W.L.: 755.30
 DATE W.L.: 11/3/2020
 TIME W.L.: 0815

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 Air Knife; Fill	FILL						Stick-up -	<p>B-111D Borehole Diameter: 6" WELL CASING Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 74.15'-84.15' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.1'-84.15' Type: FilterSil Quantity: 3-50 lbs bags FILTER PACK SEAL Interval: 68.7'-72.1' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-68.7' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
10		10.00 - 15.00 (ML), SILT; tan to brown, trace fine to coarse sand, moist to wet, soft, low plasticity, w<PI, saprolite	ML		10.00					
15		15.00 - 20.00 (ML), SILT; gray and green to brown, low plasticity, w<PL, moist, soft to firm	ML		15.00	1	ROTO SONIC	10.00 10.00		
20		20.00 - 26.00 (ML), SILT; gray and green to brown, low plasticity, w<PL, moist, soft to firm, more saprolitic	ML		20.00					
25		26.00 - 27.00 (TWR), TRANSITIONALLY WEATHERED ROCK; silt, gray and green to brown, low plasticity, w<PL, moist, soft to firm, saprolitic, locally contains gravels of augen biotite gneiss	TWR		26.00					
30		27.00 - 34.00 (GNEISS), BEDROCK; quartz, feldspar, biotite, white to dark gray, moderately weathered, medium strong, iron staining, locally contains augen feldspars	BR		27.00	3	ROTO SONIC	1.00 2.00	AquaGuard Bentonite - Grout	
35		34.00 - 51.50 (GNEISS), BEDROCK; biotite, quartz, feldspar, white to light gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong, iron staining, locally contains K-spar augens	BR		34.00	4	ROTO SONIC	2.20 4.00		
40			BR			5	ROTO SONIC	1.70 6.00		
45			BR			6	ROTO SONIC	10.00 10.00		
50		Log continued on next page								

BOREHOLE RECORD: MCDONOUGH MASTER LIST (2) (3) (1).GPJ PIEDMONT.GDT 2/10/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 2/3/21



RECORD OF BOREHOLE B-111D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 85.00 ft
 LOCATION: West of DGWC-5

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/1/20
 DATE COMPLETED: 11/3/20

NORTHING: 1394303.4
 EASTING: 2202956.4
 GS ELEVATION: 789.1 ft
 TOC ELEVATION: 791.87 ft

DEPTH W.L.: 8.9
 ELEVATION W.L.: 755.30
 DATE W.L.: 11/3/2020
 TIME W.L.: 0815

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
50			BR		51.50				<p style="font-size: small; text-align: left;">3/8" Uncoated Pel-Plug</p> <p style="font-size: small; text-align: left;">Sand Filter Pack</p> <p style="font-size: small; text-align: left;">U-Pack Screen</p>	<p>B-111D Borehole Diameter: 6" WELL CASING Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 74.15'-84.15' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.1'-84.15' Type: FilterSil Quantity: 3-5 lbs bags FILTER PACK SEAL Interval: 68.7'-72.1' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-68.7' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
55		51.50 - 58.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, white to light gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong, locally contains epidote	BR			7	ROTO SONIC	7.00 10.00		
60		58.00 - 85.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, white to light gray, well foliated, poorly jointed, fresh to slightly weathered, medium to strong,	BR		58.00	8	ROTO SONIC	5.00 5.00		
65			BR			9	ROTO SONIC	5.00 5.00		
70			BR			10	ROTO SONIC	5.00 5.00		
75			BR			11	ROTO SONIC	10.00 10.00		
80			BR							
85		Boring completed at 85.00 ft								
90										
95										
100										

BOREHOLE RECORD MCDONOUGH MASTER LIST (2) (3) (1).GPJ PIEDMONT.GDT 2/10/21

LOG SCALE: 1 in = 6.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG
 CHECKED BY: Timothy Richards, PG
 DATE: 2/3/21



RECORD OF BOREHOLE B-115D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 166849621
 DRILLED DEPTH: 80.00 ft
 LOCATION: South of overflow parking

DRILL RIG: TSi 150CC
 DATE STARTED: 3/19/21
 DATE COMPLETED: 3/20/21

NORTHING: 1,391,265.3
 EASTING: 2,202,580.7
 GS ELEVATION: 786.4
 TOC ELEVATION: 789.17 ft

DEPTH W.L.: 19.32
 ELEVATION W.L.: 769.85
 DATE W.L.: 4/7/2021
 TIME W.L.: 14:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0	785	0.00 - 10.00 FILL- Backfilled with cuttings from air knife clearance								<p>WELL CASING Interval: 0-69.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p>WELL SCREEN Interval: 69.2-79.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 79.2-79.5'</p> <p>FILTER PACK Interval: 66.7-79.5' Type: #1 Filter Sand Quantity: 4 - 50 lbs bags</p> <p>FILTER PACK SEAL Interval: 62.5-66.7' Type: 3/8" Uncoated Pel-Plug Quantity: 1 - 5 gallon bucket</p> <p>ANNULUS SEAL Interval: 0-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 100 gallons</p> <p>WELL COMPLETION Pad: 4'x4'x4" Concrete Protective Casing: 4"x4" Aluminium</p> <p>DRILLING METHODS Soil Drill: Rotasonic (6 inch casing by 4 inch core barrel) Rock Drill: Rotasonic Sample Type: Rotasonic</p>
5	780					Air Knife	0.00 10.00			
10	775	10.00 - 13.00 CL, Silty CLAY with trace organics, low to moderate plasticity; dark brown; fill; soft to firm, moist, W<PL	CL		776.4 10.00					
15	770	13.00 - 18.00 SC, Clayey SAND, low plasticity, fine to coarse; dark red brown to red brown; fill; soft/loose, dry to moist, W<PL	SC		773.4 13.00	1	10.00 10.00			
20	765	18.00 - 20.00 ML, Clayey SILT, low plasticity; tan; soft, moist, W<PL	ML		768.4 18.00					
25	760	20.00 - 25.00 TWR, Transitional Weathered Rock; breaks down to a ML, Sandy SILT with trace cobbles, non to low plasticity; light brown to brown; soft/loose, moist, W<PL	TWR		766.4 20.00					
30	755	25.00 - 30.00 Highly to moderately weathered, well foliated, well jointed, dark gray to black, fine to medium grained, very weak to weak, muscovite SCHIST; locally is water stained	BR		761.4 25.00	2	8.50 10.00			
35	750	30.00 - 50.00 Fresh to moderately weathered, well foliated, well jointed, green to gray to black, fine to medium grained, very weak to medium strong, muscovite SCHIST; locally interlayered with an epidote-quartz-muscovite schistose GNEISS	BR		756.4 30.00	3	7.50 10.00	AquaGuard Grout		
40		Log continued on next page								

BOREHOLE RECORD: 166849621.GPJ_PIEDMONT.GDT: 5/24/21

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tommy Ardito

INSPECTOR: Michael Boatman, PG
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/24/21



RECORD OF BOREHOLE B-115D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 166849621
 DRILLED DEPTH: 80.00 ft
 LOCATION: South of overflow parking

DRILL RIG: TSi 150CC
 DATE STARTED: 3/19/21
 DATE COMPLETED: 3/20/21

NORTHING: 1,391,265.3
 EASTING: 2,202,580.7
 GS ELEVATION: 786.4
 TOC ELEVATION: 789.17 ft

DEPTH W.L.: 19.32
 ELEVATION W.L.: 769.85
 DATE W.L.: 4/7/2021
 TIME W.L.: 14:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	ELEV. SAMPLE NO.	PHOTO	REC		
40	745	30.00 - 50.00 Fresh to moderately weathered, well foliated, well jointed, green to gray to black, fine to medium grained, very weak to medium strong, muscovite SCHIST; locally interlayered with an epidote-quartz-muscovite schistose GNEISS (Continued)	BR	[Graphic Log Pattern]	736.4 50.00	4	[Photo]	6.50 10.00	<p style="font-size: small;">Bentonite Seal</p> <p style="font-size: small;">#1 Filter Sand</p> <p style="font-size: small;">0.010" Slotted Schedule 40 PVC</p> <p style="font-size: small;">Sump</p>	<p>WELL CASING Interval: 0-69.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p>WELL SCREEN Interval: 69.2-79.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 79.2-79.5'</p> <p>FILTER PACK Interval: 66.7-79.5' Type: #1 Filter Sand Quantity: 4 - 50 lbs bags</p> <p>FILTER PACK SEAL Interval: 62.5-66.7' Type: 3/8" Uncoated Pel-Plug Quantity: 1 - 5 gallon bucket</p> <p>ANNULUS SEAL Interval: 0-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 100 gallons</p> <p>WELL COMPLETION Pad: 4'x4' Concrete Protective Casing: 4" x 4" Aluminium</p> <p>DRILLING METHODS Soil Drill: Rotasonic (6 inch casing by 4 inch core barrel) Rock Drill: Rotasonic Sample Type: Rotasonic</p>
45	740									
50	735	50.00 - 70.00 Fresh to slightly weathered, well foliated, well jointed, light gray to green, fine to medium grained, weak to strong, chlorite-quartz-muscovite SCHIST								
55	730									
60	725		BR							
65	720									
70	715	70.00 - 80.00 Fresh to Slightly weathered, weak to moderately foliated, poorly jointed, gray to black, fine grained, medium strong to strong, quartz-biotite-muscovite SCHIST; locally contains pyrite and garnets			716.4 70.00					
75	710		BR							
80		Boring completed at 80.00 ft			706.4					

BOREHOLE RECORD: 166849621.GPJ_PIEDMONT.GDT: 5/24/21

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tommy Ardito

INSPECTOR: Michael Boatman, PG
 CHECKED BY: Rachel Kirkman, PG
 DATE: 5/24/21



APPENDIX B

Analytical Laboratory Reports

May 14, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joe Booth, Resolute Environmental & Water Resources
Trent Godwin, Resolute Environmental & Water Resources
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92532118001	B-104D 56.5-57'	Solid	04/08/21 12:00	04/08/21 14:56
92532118002	B-109D 92.5-93'	Solid	04/08/21 12:05	04/08/21 14:56
92532118003	B-111D 82-82.5'	Solid	04/08/21 12:10	04/08/21 14:56
92532118004	B-115D 70.9-71.4'	Solid	04/08/21 12:15	04/08/21 14:56
92532118005	B-116D 88-88.25'	Solid	04/08/21 12:20	04/08/21 14:56
92532118006	B-117D 67-67.5'	Solid	04/08/21 12:25	04/08/21 14:56
92532118007	B-119D 101-101.4'	Solid	04/08/21 12:30	04/08/21 14:56

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92532118001	B-104D 56.5-57'	EPA 901.1	MAH	6	PASI-PA
92532118002	B-109D 92.5-93'	EPA 901.1	MAH	6	PASI-PA
92532118003	B-111D 82-82.5'	EPA 901.1	MAH	6	PASI-PA
92532118004	B-115D 70.9-71.4'	EPA 901.1	MAH	6	PASI-PA
92532118005	B-116D 88-88.25'	EPA 901.1	MAH	6	PASI-PA
92532118006	B-117D 67-67.5'	EPA 901.1	MAH	6	PASI-PA
92532118007	B-119D 101-101.4'	EPA 901.1	MAH	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118001	B-104D 56.5-57'					
EPA 901.1	Radium-226	2.092 ± 0.499 (0.307) C:NA T:NA	pCi/g		05/06/21 15:24	Ra
EPA 901.1	Radium-228	1.929 ± 0.628 (0.658) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Thorium-232	30.535 ± 97.930 (121.200) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Thorium-234	2.382 ± 5.443 (6.737) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Uranium-235	0.000 ± 0.963 (2.546) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Uranium-238	14.981 ± 18.556 (17.580) C:NA T:NA	pCi/g		05/06/21 15:24	
92532118002	B-109D 92.5-93'					
EPA 901.1	Radium-226	1.062 ± 0.248 (0.149) C:NA T:NA	pCi/g		05/06/21 15:25	Ra
EPA 901.1	Radium-228	1.612 ± 0.328 (0.257) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Thorium-232	0.000 ± 15.879 (35.880) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Thorium-234	1.868 ± 1.351 (1.678) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Uranium-235	0.000 ± 0.816 (1.401) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Uranium-238	5.079 ± 12.720 (14.300) C:NA T:NA	pCi/g		05/06/21 15:25	
92532118003	B-111D 82-82.5'					
EPA 901.1	Radium-226	1.296 ± 0.310 (0.241) C:NA T:NA	pCi/g		05/06/21 15:56	Ra

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SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118003	B-111D 82-82.5'					
EPA 901.1	Radium-228	1.440 ± 0.518 (0.681) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Thorium-232	40.530 ± 63.887 (77.770) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Thorium-234	1.785 ± 3.710 (4.578) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Uranium-235	0.568 ± 1.526 (1.740) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Uranium-238	0.000 ± 5.574 (19.140) C:NA T:NA	pCi/g		05/06/21 15:56	
92532118004	B-115D 70.9-71.4'					
EPA 901.1	Radium-226	1.518 ± 0.291 (0.260) C:NA T:NA	pCi/g		05/06/21 15:58	Ra
EPA 901.1	Radium-228	2.297 ± 0.463 (0.292) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Thorium-232	25.865 ± 22.768 (36.310) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Thorium-234	0.831 ± 1.366 (2.265) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Uranium-235	0.161 ± 1.217 (1.528) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Uranium-238	0.922 ± 17.282 (19.570) C:NA T:NA	pCi/g		05/06/21 15:58	
92532118005	B-116D 88-88.25'					
EPA 901.1	Radium-226	1.344 ± 0.346 (0.220) C:NA T:NA	pCi/g		05/06/21 16:34	Ra
EPA 901.1	Radium-228	1.777 ± 0.536 (0.474) C:NA T:NA	pCi/g		05/06/21 16:34	

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SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118005	B-116D 88-88.25'					
EPA 901.1	Thorium-232	0.000 ± 33.838 (77.080) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Thorium-234	0.000 ± 1.927 (4.422) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Uranium-235	0.032 ± 1.441 (1.662) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Uranium-238	6.984 ± 15.413 (14.130) C:NA T:NA	pCi/g		05/06/21 16:34	
92532118006	B-117D 67-67.5'					
EPA 901.1	Radium-226	1.297 ± 0.322 (0.173) C:NA T:NA	pCi/g		05/06/21 17:06	Ra
EPA 901.1	Radium-228	1.431 ± 0.433 (0.200) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Thorium-232	0.000 ± 41.225 (100.100) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Thorium-234	0.000 ± 2.347 (5.994) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Uranium-235	0.845 ± 1.424 (1.634) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Uranium-238	0.295 ± 19.653 (18.960) C:NA T:NA	pCi/g		05/06/21 17:06	
92532118007	B-119D 101-101.4'					
EPA 901.1	Radium-226	1.892 ± 0.320 (0.204) C:NA T:NA	pCi/g		05/06/21 16:35	Ra
EPA 901.1	Radium-228	1.928 ± 0.421 (0.206) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Thorium-232	18.394 ± 35.121 (44.700) C:NA T:NA	pCi/g		05/06/21 16:35	

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SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118007	B-119D 101-101.4'					
EPA 901.1	Thorium-234	0.000 ± 1.622 (2.771) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Uranium-235	0.000 ± 0.575 (1.461) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Uranium-238	10.618 ± 9.175 (9.480) C:NA T:NA	pCi/g		05/06/21 16:35	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-104D 56.5-57' **Lab ID: 92532118001** Collected: 04/08/21 12:00 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	2.092 ± 0.499 (0.307) C:NA T:NA	pCi/g	05/06/21 15:24	13982-63-3	Ra
Radium-228	EPA 901.1	1.929 ± 0.628 (0.658) C:NA T:NA	pCi/g	05/06/21 15:24	15262-20-1	
Thorium-232	EPA 901.1	30.535 ± 97.930 (121.200) C:NA T:NA	pCi/g	05/06/21 15:24	7440-29-1	
Thorium-234	EPA 901.1	2.382 ± 5.443 (6.737) C:NA T:NA	pCi/g	05/06/21 15:24	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.963 (2.546) C:NA T:NA	pCi/g	05/06/21 15:24	15117-96-1	
Uranium-238	EPA 901.1	14.981 ± 18.556 (17.580) C:NA T:NA	pCi/g	05/06/21 15:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-109D 92.5-93' **Lab ID: 92532118002** Collected: 04/08/21 12:05 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.062 ± 0.248 (0.149) C:NA T:NA	pCi/g	05/06/21 15:25	13982-63-3	Ra
Radium-228	EPA 901.1	1.612 ± 0.328 (0.257) C:NA T:NA	pCi/g	05/06/21 15:25	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 15.879 (35.880) C:NA T:NA	pCi/g	05/06/21 15:25	7440-29-1	
Thorium-234	EPA 901.1	1.868 ± 1.351 (1.678) C:NA T:NA	pCi/g	05/06/21 15:25	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.816 (1.401) C:NA T:NA	pCi/g	05/06/21 15:25	15117-96-1	
Uranium-238	EPA 901.1	5.079 ± 12.720 (14.300) C:NA T:NA	pCi/g	05/06/21 15:25		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-111D 82-82.5' **Lab ID: 92532118003** Collected: 04/08/21 12:10 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.296 ± 0.310 (0.241) C:NA T:NA	pCi/g	05/06/21 15:56	13982-63-3	Ra
Radium-228	EPA 901.1	1.440 ± 0.518 (0.681) C:NA T:NA	pCi/g	05/06/21 15:56	15262-20-1	
Thorium-232	EPA 901.1	40.530 ± 63.887 (77.770) C:NA T:NA	pCi/g	05/06/21 15:56	7440-29-1	
Thorium-234	EPA 901.1	1.785 ± 3.710 (4.578) C:NA T:NA	pCi/g	05/06/21 15:56	15065-10-8	
Uranium-235	EPA 901.1	0.568 ± 1.526 (1.740) C:NA T:NA	pCi/g	05/06/21 15:56	15117-96-1	
Uranium-238	EPA 901.1	0.000 ± 5.574 (19.140) C:NA T:NA	pCi/g	05/06/21 15:56		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-115D 70.9-71.4' **Lab ID: 92532118004** Collected: 04/08/21 12:15 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.518 ± 0.291 (0.260) C:NA T:NA	pCi/g	05/06/21 15:58	13982-63-3	Ra
Radium-228	EPA 901.1	2.297 ± 0.463 (0.292) C:NA T:NA	pCi/g	05/06/21 15:58	15262-20-1	
Thorium-232	EPA 901.1	25.865 ± 22.768 (36.310) C:NA T:NA	pCi/g	05/06/21 15:58	7440-29-1	
Thorium-234	EPA 901.1	0.831 ± 1.366 (2.265) C:NA T:NA	pCi/g	05/06/21 15:58	15065-10-8	
Uranium-235	EPA 901.1	0.161 ± 1.217 (1.528) C:NA T:NA	pCi/g	05/06/21 15:58	15117-96-1	
Uranium-238	EPA 901.1	0.922 ± 17.282 (19.570) C:NA T:NA	pCi/g	05/06/21 15:58		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-116D 88-88.25' **Lab ID: 92532118005** Collected: 04/08/21 12:20 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.344 ± 0.346 (0.220) C:NA T:NA	pCi/g	05/06/21 16:34	13982-63-3	Ra
Radium-228	EPA 901.1	1.777 ± 0.536 (0.474) C:NA T:NA	pCi/g	05/06/21 16:34	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 33.838 (77.080) C:NA T:NA	pCi/g	05/06/21 16:34	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 1.927 (4.422) C:NA T:NA	pCi/g	05/06/21 16:34	15065-10-8	
Uranium-235	EPA 901.1	0.032 ± 1.441 (1.662) C:NA T:NA	pCi/g	05/06/21 16:34	15117-96-1	
Uranium-238	EPA 901.1	6.984 ± 15.413 (14.130) C:NA T:NA	pCi/g	05/06/21 16:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-117D 67-67.5' **Lab ID: 92532118006** Collected: 04/08/21 12:25 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.297 ± 0.322 (0.173) C:NA T:NA	pCi/g	05/06/21 17:06	13982-63-3	Ra
Radium-228	EPA 901.1	1.431 ± 0.433 (0.200) C:NA T:NA	pCi/g	05/06/21 17:06	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 41.225 (100.100) C:NA T:NA	pCi/g	05/06/21 17:06	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 2.347 (5.994) C:NA T:NA	pCi/g	05/06/21 17:06	15065-10-8	
Uranium-235	EPA 901.1	0.845 ± 1.424 (1.634) C:NA T:NA	pCi/g	05/06/21 17:06	15117-96-1	
Uranium-238	EPA 901.1	0.295 ± 19.653 (18.960) C:NA T:NA	pCi/g	05/06/21 17:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Sample: B-119D 101-101.4' **Lab ID: 92532118007** Collected: 04/08/21 12:30 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.892 ± 0.320 (0.204) C:NA T:NA	pCi/g	05/06/21 16:35	13982-63-3	Ra
Radium-228	EPA 901.1	1.928 ± 0.421 (0.206) C:NA T:NA	pCi/g	05/06/21 16:35	15262-20-1	
Thorium-232	EPA 901.1	18.394 ± 35.121 (44.700) C:NA T:NA	pCi/g	05/06/21 16:35	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 1.622 (2.771) C:NA T:NA	pCi/g	05/06/21 16:35	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.575 (1.461) C:NA T:NA	pCi/g	05/06/21 16:35	15117-96-1	
Uranium-238	EPA 901.1	10.618 ± 9.175 (9.480) C:NA T:NA	pCi/g	05/06/21 16:35		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

QC Batch: 444911

Analysis Method: EPA 901.1

QC Batch Method: EPA 901.1

Analysis Description: 901.1 Gamma Spec Ingrowth

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92532118001, 92532118002, 92532118003, 92532118004, 92532118005

METHOD BLANK: 2147795

Matrix: Solid

Associated Lab Samples: 92532118001, 92532118002, 92532118003, 92532118004, 92532118005, 92532118006, 92532118007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.039 ± 0.069 (0.117) C:NA T:NA	pCi/g	04/27/21 13:30	Ra
Radium-228	0.042 ± 0.087 (0.195) C:NA T:NA	pCi/g	04/27/21 13:30	
Thorium-232	4.826 ± 10.987 (15.230) C:NA T:NA	pCi/g	04/27/21 13:30	
Thorium-234	0.021 ± 0.700 (1.011) C:NA T:NA	pCi/g	04/27/21 13:30	
Uranium-235	0.040 ± 0.068 (0.713) C:NA T:NA	pCi/g	04/27/21 13:30	
Uranium-238	3.072 ± 3.895 (6.635) C:NA T:NA	pCi/g	04/27/21 13:30	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Ra The reported Ra-226 results were determined by hermetically sealing the dried, processed sample in an appropriate-sized can. Each sample was stored for a minimum of 21 days to ensure that equilibrium between Ra-226 and daughters Bi-214 and Pb-214 was achieved. Reported Ra-226 results were inferred from gamma peaks attributable to Bi-214 and Pb-214.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92532118001	B-104D 56.5-57'	EPA 901.1	444911		
92532118002	B-109D 92.5-93'	EPA 901.1	444911		
92532118003	B-111D 82-82.5'	EPA 901.1	444911		
92532118004	B-115D 70.9-71.4'	EPA 901.1	444911		
92532118005	B-116D 88-88.25'	EPA 901.1	444911		
92532118006	B-117D 67-67.5'	EPA 901.1	444911		
92532118007	B-119D 101-101.4'	EPA 901.1	444911		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92532118



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *4/8/14*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: *214* Type of Ice: Wet Blue None

Cooler Temp: *22.0* Correction Factor: Add/Subtract (°C) *+0.1*

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *22.1*

USDA Regulated Soil (N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	<i>250ml Glass Mason Jars</i>
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<i>SL</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DPO/8015 (water) DOC, UHg

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

Project #

WO# : 92532118

PM: KLH1

Due Date: 04/29/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WG7U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	VG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O1 (N/A)	VG9U-40 mL VOA Unp (N/A)	VG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/CX (3 vials per kit)-V/CX/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (N 3-0-7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

BG3U
 Mason Jar

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Georgia Power - Coal Combustion Residuals Address: 2480 Manor Road Atlanta, GA 30339 Email: j.abraham@spauldenma.com Phone: (404) 506-7239 Requested Due Date: 10 Day FAT	Report To: Jody Abraham Copy To: Collier Purchase Order #: Project Name: Plant McDonough AP-1 Project #: 168049618	Attention: scshincoas@spauldenma.com Company Name: Address: State / Location: GA Regulatory Agency: State / Location: GA Face Project Manager: Kevin Herring Face Profile #:
--	---	---

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique</small>	MATRIX <small>Drinking Water DW Wastewater WW Process Water PW Surface Water SW Other OT Tissue TS</small>	CODE <small>DW WW PW SW OT TS</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives <small>H2SO4 HNO3 HC NaOH + Zn Acetate Na2S2O3 Methanol Other</small>	Analytes Test <small>Gamma Spectrometry U Th Ra</small>	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	REQUISITIONED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
														DATE	TIME	DATE	TIME	TEMP in C	Received on Ice (Y/N)
1	B-104D 56-S-57		DW		G	4/8/2021	12:00		1		X								
2	B-109D 92-S-93		WW		G	4/8/2021	12:05		1		X								
3	B-111D 82-82.5		SW		G	4/8/2021	12:10		1		X								
4	B-115D 70-S-71.4		SW		G	4/8/2021	12:15		1		X								
5	B-116D 88-88.25		SW		G	4/8/2021	12:20		1		X								
6	B-117D 67-67.5		SW		G	4/8/2021	12:25		1		X								
7	B-118D 101-101.4		SW		G	4/8/2021	12:30		1		X								
8																			
9																			
10																			
11																			
12																			

M. White / D. Brown 4/8/21 14:36 *J. Williams / K. Herring* 4/8/21 14:36

DATE signed: _____

Gamma Spec Quality Control Sample Performance Assessment

Analyst: MAH
Date: 4/27/2021
Batch ID: 60140
Matrix: SOLID
Method: EPA 901.1

Geometry: 4 OZ CANS
Activity Units: pCi
Aliquot Units: GRAM



Method Blank Assessment		Method Blank ID: 2147795	
Analytes of Interest	MB Result	2 Sigma CSU	MB MDC
Ra-226	0.039	0.069	0.117
Ra-228	0.042	0.087	0.195
Th-232	4.826	10.987	15.230
Th-234	0.021	0.700	1.011
U-235	0.040	0.068	0.713
U-238	3.072	3.895	6.635

Duplicate Sample Precision Assessment		Sample ID:		Duplicate Sample ID:	
Analytes of Interest	Sample Results	Sample 2 Sigma CSU	Duplicate Results	Duplicate 2 Sigma CSU	Numerial Indicator
Ra-226					#DIV/0!
Ra-228					#DIV/0!
Th-232					#DIV/0!
Th-234					#DIV/0!
U-235					#DIV/0!
U-238					#DIV/0!

Laboratory Control Sample Assessment		Analyte	
Volume or Mass of Reference Geometry	Reference Concentration	Count Date	Analyte
	1387.046	4/27/2021	Lead-210
	0.059	4/27/2021	Cobalt-60
	1432.4	4/27/2021	Cesium-137
	189.430	4/27/2021	

Duplicate LCS Precision Assessment		LCS 2 Sigma CSU		LCS Concentration	
Analyte	LCS Concentration	LCS 2 Sigma CSU	LCS Concentration	LCSD 2 Sigma CSU	Numerial Indicator
Lead-210	1432.400	189.430	1555.700	255.020	-0.761
Cobalt-60	20.642	2.282	20.499	2.743	0.079
Cesium-137	46.814	5.219	48.877	6.576	-0.482

Evaluation: If the sample or Duplicate sample activity is below the associated MDC, the %RPD evaluation is not applicable and the sample duplicate precision criteria is acceptable.

KIPANED FOR NEW ANALYSES

JMS 5/10/21

APPENDIX C

Groundwater Sampling Field Data Forms

PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-1040</u>	Date: <u>09/14/21</u>	Water Level (ft): <u>5.78</u>	Time (WL): <u>1555</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>Partly Cloudy</u>	
Well Diameter (in): 2	Well Depth (ft): <u>60</u>	Water Column (ft): <u>54.22</u>	Well Volume (gal): 8.84
Start Purge: <u>1610</u>	End Purge: <u>1645</u>	Top of Pump (ft): <u>55</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>3.5 L</u>	
Evacuation Equipment: <u>QED</u>		Purging Personnel: <u>E. Rheans</u>	
SmarTroll serial #: <u>850751</u>		LaMotte serial #: <u>1603-441</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1645</u>	<u>Clear</u>	<u>None</u>	<u>6.58</u>	<u>1037.6</u>	<u>0.40</u>	<u>27.06</u>	<u>105.5</u>	<u>2.17</u>	<u>8.61</u>	<u>100 mL</u>
			<u>Sampled @ 1645</u>							

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: B-1040 Sample Date/Time: 09/14/21 1645 Metals Date/Time: 09/14/21 1645
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 2.17
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 09/14/21 1645

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
<u>1</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>1</u>	500 mL plastic	--	TDS
<u>2</u>	1 L plastic	HNO3	Radium 226/228

Signature: E. Rheans



Low-Flow Test Report:

Test Date / Time: 9/14/2021 4:10:27 PM

Project: Plant McDonough (19)

Operator Name: Erik Rheams

Location Name: B-104D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50 ft Total Depth: 60 ft Initial Depth to Water: 5.78 ft	Pump Type: Dedicated bladder Tubing Type: Polyethylene Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.83 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	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 4:10 PM	00:00	6.51 pH	28.28 °C	983.32 µS/cm	1.37 mg/L	3.55 NTU	-0.7 mV	5.78 ft	100.00 ml/min
9/14/2021 4:15 PM	05:00	6.46 pH	25.97 °C	1,036.4 µS/cm	0.62 mg/L	2.46 NTU	-27.1 mV	5.95 ft	100.00 ml/min
9/14/2021 4:20 PM	10:00	6.49 pH	25.28 °C	1,035.4 µS/cm	0.48 mg/L	2.16 NTU	-50.9 mV	6.60 ft	100.00 ml/min
9/14/2021 4:25 PM	15:00	6.53 pH	24.88 °C	1,035.5 µS/cm	0.41 mg/L	2.20 NTU	-72.9 mV	7.29 ft	100.00 ml/min
9/14/2021 4:30 PM	20:00	6.56 pH	24.90 °C	1,039.1 µS/cm	0.36 mg/L	2.42 NTU	-82.8 mV	7.89 ft	100.00 ml/min
9/14/2021 4:35 PM	25:00	6.58 pH	25.08 °C	1,036.3 µS/cm	0.33 mg/L	2.50 NTU	-98.4 mV	8.31 ft	100.00 ml/min
9/14/2021 4:40 PM	30:00	6.58 pH	26.15 °C	1,052.6 µS/cm	0.36 mg/L	2.58 NTU	-99.2 mV	8.49 ft	100.00 ml/min
9/14/2021 4:45 PM	35:00	6.58 pH	27.06 °C	1,037.6 µS/cm	0.40 mg/L	2.17 NTU	-105.5 mV	8.61 ft	100.00 ml/min

Samples

Sample ID:	Description:
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PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-1090</u>	Date:	Water Level (ft): <u>38.48</u>	Time (WL): <u>1154</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Clear</u>		
Well Diameter (in): 2	Well Depth (ft): <u>99</u>	Water Column (ft): 60.52	Well Volume (gal): 9.86
Start Purge: <u>1225</u>	End Purge:	Top of Pump (ft): <u>94</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>5.88</u>	
Evacuation Equipment: <u>QED</u>		Purging Personnel: <u>F. Rheams</u>	
SmarTroll serial #: <u>850751</u>		LaMotte serial #: <u>1603-441</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1305</u>	<u>Clear</u>	<u>None</u>	<u>6.86</u>	<u>314.93</u>	<u>8.50</u>	<u>27.11</u>	<u>-84.2</u>	<u>3.86</u>	<u>38.61</u>	<u>160</u>
		<u>Sampled @ 1305</u>								

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: B-1090 Sample Date/Time: 09/10/21 1305 Metals Date/Time: 09/10/21 1305
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 3.86
 Field Blank: EB-3 Blank Date/Time: 9/10/21 1500 Turbidity Date/Time: _____
09/10/21 1305

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
<u>1</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>1</u>	500 mL plastic	--	TDS
<u>2</u>	1 L plastic	HNO3	Radium 226/228

Signature: 

Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:26:02 PM

Project: Plant McDonough (9)

Operator Name: Erik Rheams

Location Name: B-109D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89 ft Total Depth: 99 ft Initial Depth to Water: 38.48 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 94 ft Estimated Total Volume Pumped: 5880 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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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	
9/10/2021 12:26 PM	00:00	6.61 pH	28.83 °C	377.12 µS/cm	3.16 mg/L	6.01 NTU	-125.8 mV	38.48 ft	160.00 ml/min
9/10/2021 12:27 PM	01:45	6.67 pH	27.36 °C	365.27 µS/cm	4.07 mg/L	6.01 NTU	-118.0 mV	38.48 ft	160.00 ml/min
9/10/2021 12:32 PM	06:45	6.83 pH	25.38 °C	362.77 µS/cm	6.64 mg/L	11.20 NTU	-55.7 mV	38.56 ft	160.00 ml/min
9/10/2021 12:37 PM	11:45	6.89 pH	25.80 °C	345.76 µS/cm	7.88 mg/L	8.68 NTU	-57.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:42 PM	16:45	6.88 pH	26.42 °C	341.41 µS/cm	8.44 mg/L	8.15 NTU	-64.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:47 PM	21:45	6.87 pH	26.81 °C	333.41 µS/cm	8.63 mg/L	6.92 NTU	-77.5 mV	38.61 ft	160.00 ml/min
9/10/2021 12:52 PM	26:45	6.87 pH	26.66 °C	321.00 µS/cm	8.56 mg/L	7.46 NTU	-79.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:57 PM	31:45	6.88 pH	26.91 °C	318.32 µS/cm	8.86 mg/L	6.09 NTU	-82.6 mV	38.61 ft	160.00 ml/min
9/10/2021 1:02 PM	36:45	6.86 pH	27.11 °C	314.33 µS/cm	8.50 mg/L	3.86 NTU	-84.2 mV	38.61 ft	160.00 ml/min

Samples

Sample ID:	Description:
B-109D	EB-3

PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-111D</u>	Date: <u>09/14/21</u>	Water Level (ft): <u>11.68</u>	Time (WL): <u>15:00</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Cloudy, 86°</u>		
Well Diameter (in): 2	Well Depth (ft): <u>84.20</u>	Water Column (ft): <u>72.52</u>	Well Volume (gal): <u>11.82</u>
Start Purge: <u>15:02</u>	End Purge: <u>15:37</u>	Top of Pump (ft): <u>79.00</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>3.5</u>	
Evacuation Equipment: <u>Peri Pump</u>		Purging Personnel: <u>Duane Furdon</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>15:37</u>	<u>Clear</u>	<u>None</u>	<u>7.29</u>	<u>947.92</u>	<u>0.29</u>	<u>22.05</u>	<u>-946</u>	<u>2.12</u>	<u>12.30</u>	<u>100 mL/min</u>
<u>2 SAMPLES 15:37</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: B-111D Sample Date/Time: 09-14-21/15:37 Metals Date/Time: 09-14-21/15:37
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 2.12
 Field Blank: — Blank Date/Time: 09-14-21/16:35 Turbidity Date/Time: 09-14-21/15:37
EB-4

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
<u>2</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>2</u>	500 mL plastic	--	TDS
<u>4</u>	1 L plastic	HNO3	Radium 226/228

Signature: Duane Furdon

NOTE: NEED TO CORRECT INITIAL DATA TO WATER ON LOW FLOW REPORT



Low-Flow Test Report:

Test Date / Time: 9/14/2021 3:02:52 PM

Project: Plant McDonough (15)

Operator Name: D Fulton

Location Name: B-111D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 74.2 ft Total Depth: 84.2 ft Initial Depth to Water: 11.68 ft	Pump Type: Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 79 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.62 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear,85

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	
9/14/2021 3:02 PM	00:00	6.98 pH	31.90 °C	838.10 µS/cm	4.95 mg/L	1.20 NTU	-59.0 mV	11.89 ft	150.00 ml/min
9/14/2021 3:07 PM	05:00	7.12 pH	22.76 °C	929.76 µS/cm	0.59 mg/L	2.24 NTU	-80.2 mV	12.12 ft	100.00 ml/min
9/14/2021 3:12 PM	10:00	7.14 pH	22.27 °C	939.17 µS/cm	0.41 mg/L	1.18 NTU	-131.3 mV	12.18 ft	100.00 ml/min
9/14/2021 3:17 PM	15:00	7.14 pH	22.20 °C	941.33 µS/cm	0.34 mg/L	2.63 NTU	-87.7 mV	12.22 ft	100.00 ml/min
9/14/2021 3:22 PM	20:00	7.15 pH	22.80 °C	939.47 µS/cm	0.36 mg/L	0.96 NTU	-89.6 mV	12.23 ft	100.00 ml/min
9/14/2021 3:27 PM	25:00	7.15 pH	22.32 °C	934.33 µS/cm	0.33 mg/L	2.51 NTU	-89.8 mV	12.28 ft	100.00 ml/min
9/14/2021 3:32 PM	30:00	7.18 pH	22.14 °C	937.33 µS/cm	0.32 mg/L	2.23 NTU	-90.9 mV	12.29 ft	100.00 ml/min
9/14/2021 3:37 PM	35:00	7.29 pH	22.05 °C	947.92 µS/cm	0.29 mg/L	2.12 NTU	-94.6 mV	12.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-111D	EB-4

PURGING AND SAMPLING FORM

Project #: 166849621		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>B-115D</u>	Date: <u>9/14/2021</u>	Water Level (ft): <u>19.5</u>	Time (WL): <u>1240</u>		
Physical Condition of Well: <u>good</u>		Weather: <u>87° & partly cloudy</u>			
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>80'</u>	Water Column (ft): <u>60.85</u>	Well Volume (gal): <u>9.92</u>		
Start Purge: <u>1258</u>	End Purge: <u>1458</u>	Top of Pump (ft): <u>75'</u>			
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L):			
Evacuation Equipment: <u>Peristaltic pump</u>		Purging Personnel: <u>Sam D'Aardt</u>			
SmarTroll serial #: <u>850724</u>		LaMotte serial #: <u>1510-4111</u>			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1359</u>	<u>pad Battery</u>									
<u>1420</u>	<u>restarted</u>									
<u>1458</u>	<u>clear</u>	<u>none</u>	<u>5.38</u>	<u>639.99</u>	<u>0.04</u>	<u>22.80</u>	<u>35.5</u>	<u>1.76</u>	<u>22.85</u>	<u>200</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: B-115D Sample Date/Time: 9/14/2021 1500 Metals Date/Time: ✓
 Duplicate: ✓ Dup Date/Time: ✓ Final Turbidity NTU: 1.76
 Field Blank: ✓ Blank Date/Time: ✓ Turbidity Date/Time: 1458 9/14/2021

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:20:51 PM

Project: Plant McDonough (6)

Operator Name: E. Dhondt

Location Name: B-115D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70 ft Total Depth: 80 ft Initial Depth to Water: 19.15 ft	Pump Type: peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 9112 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5.7 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/14/2021 2:20 PM	00:00	5.80 pH	21.76 °C	804.21 µS/cm	0.07 mg/L	3.41 NTU	32.1 mV	23.02 ft	280.00 ml/min
9/14/2021 2:25 PM	05:00	5.57 pH	21.91 °C	742.57 µS/cm	0.73 mg/L	2.79 NTU	47.9 mV	23.78 ft	280.00 ml/min
9/14/2021 2:30 PM	10:00	5.52 pH	21.80 °C	714.11 µS/cm	0.49 mg/L	2.62 NTU	45.2 mV	24.30 ft	280.00 ml/min
9/14/2021 2:35 PM	15:00	5.47 pH	21.68 °C	699.66 µS/cm	0.34 mg/L	2.45 NTU	43.3 mV	24.64 ft	280.00 ml/min
9/14/2021 2:41 PM	20:24	5.42 pH	22.09 °C	681.07 µS/cm	0.27 mg/L	2.02 NTU	47.2 mV	24.90 ft	280.00 ml/min
9/14/2021 2:46 PM	25:24	5.39 pH	21.90 °C	664.55 µS/cm	0.21 mg/L	1.79 NTU	40.7 mV	25.00 ft	200.00 ml/min
9/14/2021 2:51 PM	30:24	5.40 pH	22.21 °C	655.61 µS/cm	0.06 mg/L	1.79 NTU	35.6 mV	24.95 ft	200.00 ml/min
9/14/2021 2:56 PM	35:24	5.38 pH	22.80 °C	639.99 µS/cm	0.04 mg/L	1.76 NTU	35.5 mV	24.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
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PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>D6WC-2</u>	Date: <u>9-9-21</u>	Water Level (ft): <u>29.39</u>	Time (WL): <u>1253</u>
Physical Condition of Well: <u>Damaged ballrod</u>	Weather: <u>80°, sunny</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>52.42</u>	Water Column (ft): <u>23.03</u>	Well Volume (gal): <u>3.75</u>
Start Purge: <u>1255</u>	End Purge: <u>1310</u>	Top of Pump (ft): <u>42.89</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.9</u>	
Evacuation Equipment: <u>Dedicated</u>		Purging Personnel: <u>K. Minkora</u>	
SmarTroll serial #: <u>850724</u>		LaMotte serial #: <u>1510-4111</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1310</u>	<u>clear</u>	<u>no</u>	<u>6.00</u>	<u>772.91</u>	<u>0.20</u>	<u>20.80</u>	<u>109.3</u>	<u>4.19</u>	<u>30.15</u>	<u>320</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: D6WC-2 Sample Date/Time: 9-9-21/1310 Metals Date/Time: 9-9-21/1310
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 4.19
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9-9-21/1310

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:56:42 PM

Project: Plant McDonough

Operator Name: K. Minkara

Location Name: DGWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.42 ft Total Depth: 52.42 ft Initial Depth to Water: 29.39 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 4992 ml Flow Cell Volume: 90 ml Final Flow Rate: 320 ml/min Final Draw Down: 0.76 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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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	
9/9/2021 12:56 PM	00:00	6.29 pH	26.10 °C	345.41 µS/cm	4.06 mg/L	1.31 NTU	100.9 mV	29.39 ft	320.00 ml/min
9/9/2021 1:01 PM	05:00	6.02 pH	20.87 °C	355.17 µS/cm	0.67 mg/L	3.52 NTU	92.3 mV	30.11 ft	320.00 ml/min
9/9/2021 1:06 PM	10:00	6.00 pH	20.70 °C	355.33 µS/cm	0.25 mg/L	4.10 NTU	84.6 mV	30.15 ft	320.00 ml/min
9/9/2021 1:07 PM	10:36	5.99 pH	20.69 °C	359.82 µS/cm	0.25 mg/L	4.10 NTU	77.4 mV	30.15 ft	320.00 ml/min
9/9/2021 1:12 PM	15:36	6.00 pH	20.80 °C	372.41 µS/cm	0.20 mg/L	4.19 NTU	109.3 mV	30.15 ft	320.00 ml/min

Samples

Sample ID:	Description:
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PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>DGWC-5</u>	Date: <u>9/10/21</u>	Water Level (ft): <u>11.18</u>	Time (WL): <u>13:59</u>
Physical Condition of Well: <u>GOOD, OVERGROWN</u>	Weather: <u>SUNNY, 81°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>33.23</u>	Water Column (ft): <u>22.05</u>	Well Volume (gal): <u>3.59</u>
Start Purge: <u>14:02</u>	End Purge: <u>14:32</u>	Top of Pump (ft): <u>~28</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>7.5</u>	
Evacuation Equipment: <u>DEDICATED BLADDER</u>		Purging Personnel: <u>J. WAGUESPAK</u>	
SmarTroll serial #: <u>843593</u>		LaMotte serial #: <u>7007-1416</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>14:32</u>	<u>CLEAR</u>	<u>NONE</u>	<u>4.89</u>	<u>942.71</u>	<u>0.44</u>	<u>20.15</u>	<u>551.6</u>	<u>4.41</u>	<u>11.50</u>	<u>250 $\frac{mL}{min}$</u>
			<u>SAMPLED @ 14:32</u>							

Stabilization Criteria: pH \pm 0.1 S.U, Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: DGWC-5 Sample Date/Time: 9.10.21/14:32 Metals Date/Time: 9.10.21/14:32
 Duplicate: - Dup Date/Time: - Final Turbidity NTU: 4.41
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 9.10.21/14:32

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: 

Low-Flow Test Report:

Test Date / Time: 9/10/2021 2:02:23 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

Location Name: DGWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.23 ft Total Depth: 33.23 ft Initial Depth to Water: 11.18 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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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	
9/10/2021 2:02 PM	00:00	4.89 pH	27.99 °C	508.90 µS/cm	4.25 mg/L	14.60 NTU	251.2 mV	11.18 ft	250.00 ml/min
9/10/2021 2:07 PM	05:00	4.88 pH	20.47 °C	821.09 µS/cm	1.58 mg/L	12.10 NTU	481.4 mV	11.45 ft	250.00 ml/min
9/10/2021 2:12 PM	10:00	4.88 pH	20.22 °C	904.78 µS/cm	0.84 mg/L	15.70 NTU	552.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:17 PM	15:00	4.89 pH	20.24 °C	924.80 µS/cm	0.51 mg/L	11.00 NTU	551.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:22 PM	20:00	4.89 pH	20.13 °C	927.01 µS/cm	0.46 mg/L	6.72 NTU	550.9 mV	11.50 ft	250.00 ml/min
9/10/2021 2:27 PM	25:00	4.89 pH	20.13 °C	933.48 µS/cm	0.44 mg/L	5.28 NTU	469.7 mV	11.50 ft	250.00 ml/min
9/10/2021 2:32 PM	30:00	4.89 pH	20.15 °C	942.71 µS/cm	0.44 mg/L	4.41 NTU	551.6 mV	11.50 ft	250.00 ml/min

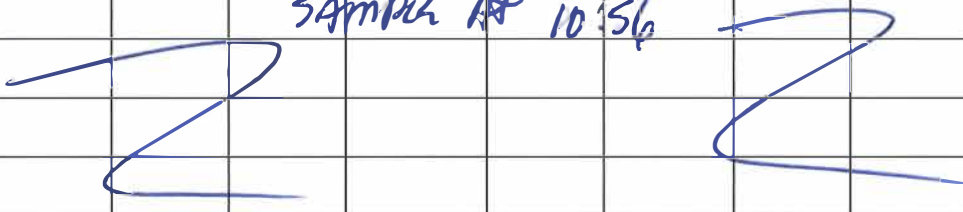
Samples

Sample ID:	Description:
DGWC-5	

PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>DWBC-48</u>	Date: <u>09/10/21</u>	Water Level (ft): <u>13.24</u>	Time (WL): <u>10:16</u>
Physical Condition of Well:		Weather: <u>CLEAR, 72</u>	
Well Diameter (in): 2	Well Depth (ft): <u>33.49</u>	Water Column (ft): <u>20.25</u>	Well Volume (gal): <u>3.30</u>
Start Purge: <u>10:21</u>	End Purge: <u>10:56</u>	Top of Pump (ft): <u>29</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>4.4</u>	
Evacuation Equipment: <u>Dedicator</u>		Purging Personnel: <u>DVANE FULTON</u>	
SmarTroll serial #: <u>850767</u>		LaMotte serial #: <u>5990-3915</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>10:56</u>	<u>CLEAR</u>	<u>None</u>	<u>4.30</u>	<u>640.22</u>	<u>0.43</u>	<u>20.34</u>	<u>203.1</u>	<u>0.54</u>	<u>13.78</u>	<u>125 m³/min</u>
<u>SAMPLE AT 10:56</u>										
										

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: DWBC-48 Sample Date/Time: 09-10-21/10:56 Metals Date/Time: 09-10-21/10:56
 Duplicate: DUP-1 Dup Date/Time: 09-10-21/11:30 Final Turbidity NTU: 0.54
 Field Blank: Blank Date/Time: Turbidity Date/Time: 09-10-21/10:56

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
<u>2</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>2</u>	500 mL plastic	--	TDS
<u>4</u>	1 L plastic	HNO3	Radium 226/228

Signature: 

Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:21:53 AM

Project: Plant McDonough (6)

Operator Name: D Fulton

Location Name: DGWC-48 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.49 ft Total Depth: 33.49 ft Initial Depth to Water: 13.24 ft	Pump Type: Dedicated Tubing Type: Polyethylene Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 4.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.54 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850767
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Test Notes:

Weather Conditions:

Clear, 75

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	
9/10/2021 10:21 AM	00:00	4.29 pH	22.80 °C	608.06 µS/cm	5.08 mg/L	0.77 NTU	244.2 mV	13.75 ft	225.00 ml/min
9/10/2021 10:26 AM	05:00	4.34 pH	20.57 °C	709.39 µS/cm	0.96 mg/L	1.11 NTU	176.4 mV	13.78 ft	125.00 ml/min
9/10/2021 10:31 AM	10:00	4.33 pH	20.51 °C	687.71 µS/cm	0.71 mg/L	0.66 NTU	221.3 mV	13.75 ft	125.00 ml/min
9/10/2021 10:36 AM	15:00	4.30 pH	20.30 °C	693.96 µS/cm	0.68 mg/L	0.61 NTU	207.4 mV	13.75 ft	125.00 ml/min
9/10/2021 10:41 AM	20:00	4.29 pH	20.26 °C	690.17 µS/cm	0.66 mg/L	0.31 NTU	291.5 mV	13.78 ft	125.00 ml/min
9/10/2021 10:46 AM	25:00	4.30 pH	20.30 °C	691.70 µS/cm	0.52 mg/L	0.21 NTU	212.2 mV	13.78 ft	125.00 ml/min
9/10/2021 10:51 AM	30:00	4.31 pH	20.31 °C	688.77 µS/cm	0.49 mg/L	0.32 NTU	208.7 mV	13.78 ft	125.00 ml/min
9/10/2021 10:56 AM	35:00	4.30 pH	20.34 °C	690.22 µS/cm	0.43 mg/L	0.54 NTU	203.1 mV	13.78 ft	125.00 ml/min

Samples

Sample ID:	Description:
DWGC-48	Dup-1

PURGING AND SAMPLING FORM

Project #: 166849618	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-57</u>	Date: <u>1-15-21</u>	Water Level (ft): <u>18.03</u>	Time (WL): <u>0830</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>cloudy 45°F</u>	
Well Diameter (in): 2	Well Depth (ft): <u>53.70</u>	Water Column (ft): <u>35.67</u>	Well Volume (gal): <u>581</u>
Start Purge: <u>840</u>	End Purge: <u>940</u>	Top of Pump (ft): <u>249</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>9.30</u>	
Evacuation Equipment: <u>DC</u>		Purging Personnel: <u>K McKee</u>	
SmarTroll serial #: <u>642531</u>		Lamotte serial #: <u>1603-441</u>	

Redeveloped on 1/11/21

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>840-850</u>	<u>→ 200 mL/min</u>		<u>(7.0)</u>							
<u>0311-940</u>	<u>140 mL</u>		<u>(6.3)</u>							
<u>0940</u>	<u>clear</u>	<u>no</u>	<u>3.83</u>	<u>1779.70</u>	<u>0.26</u>	<u>16.02</u>	<u>113.20</u>	<u>3.33</u>	<u>19.09</u>	<u>140</u>
<i>[Handwritten signature]</i>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: B-57 Sample Date/Time: 1/15/21/940 Metals Date/Time: 1/15/21 940
 Duplicate: FD Dup Date/Time: 1/15/21 Final Turbidity NTU: 3.33
 Field Blank: - Blank Date/Time: - Turbidity Date/Time: 1/15/21 940

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III & IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)</u>
<u>2</u>	<u>500 mL plastic</u>	<u>--</u>	<u>Total Dissolved Solids (SM 2540C)</u>
<u>2</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Inorganic Anions (Cl, F, SO4) (EPA 300.0)</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228 (SW-846 9315/9320)</u>

Signature: [Handwritten Signature]

Product Name: Low-Flow System

Date: 2021-01-11 16:07:13

Project Information:

Operator Name A. McClure
Company Name Golder Associates
Project Name Plant McDonough
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646770
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Waterra
Tubing Type polyethylene
Tubing Diameter 0.5 in
Tubing Length 53 ft

Pump placement from TOC 53 ft

Well Information:

Well ID B-57
Well diameter 2 in
Well Total Depth 53.74 ft
Screen Length 10 ft
Depth to Water 18.08 ft

Pumping Information:

Final Pumping Rate 1136 mL/min
Total System Volume 2.136379 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 158.64 in
Total Volume Pumped 226 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:41:39	12320.79	18.06	3.97	1811.29	175.00	31.63	0.26	136.62
Last 5	15:46:39	12620.79	17.79	3.97	1806.75	--	--	0.24	135.66
Last 5	15:51:39	12920.79	17.70	3.97	1810.91	--	--	0.24	134.47
Last 5	15:56:39	13220.78	17.44	3.99	1806.41	132.00	31.33	0.21	132.82
Last 5	16:01:39	13520.78	17.80	4.00	1808.73	91.00	31.30	0.21	130.92
Variance 0			-0.09	0.01	4.16			-0.00	-1.18
Variance 1			-0.26	0.01	-4.50			-0.02	-1.65
Variance 2			0.36	0.01	2.32			-0.00	-1.91

Notes

Grab Samples



golder.com



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CONFIRMATION OF SUBMITTAL

1. Your application has been received and will be reviewed shortly.
 2. Check your account, email and text message for system notification at various milestones.
- Thank you for using the GEOS system.

Please click [Here](#) to print your receipt.

Submittal Summary

Submittal ID:	675351	Submittal Name:	SW10. Groundwater Document Submittal Form
Submitted Date:	7/29/2022 1:18:51 PM	Submitted by:	Aaron Mitchell 241 Ralph McGill Blvd NE Atlanta 30308 404-506-6505 gpcenv@southernco.com
Status:	Complete Submittal	Submission Method:	On-line submission
Facility / Property Name:	PLANT MCDONOUGH ASH PONDS 2, 3, 4		

Submittal Form List

- Groundwater Document Submittal Form

Attachment List
Semi-Annual Groundwater Report (Required) -- Online

- 20220729_2022AGWMCAR Letter_MCD_AP-234.pdf
- 20220729_2022 AGWMCAR_MCD_234.pdf

Certification Receipt

Certification Statement:	I hereby certify that I am the owner, or authorized agent of the owner, of the described property. Further, I consent to the work to be done as described.
Certification Question:	What is your birthday?
Certification Question Answer:	*****
PIN Number:	*****
Responsible Officer:	Aaron Mitchell
Sender IP Address:	146.126.61.241